MINING journal VOL.296

AND

MINING magazine VOL.144

INDEX

1981

JANUARY–JUNE

CONTENTS

Metals and Minerals	Page 1
Countries	Page 3
Methods and Machines	Page 7
Companies and Other Public Bodies	Page 9

INDEX CLASSIFICATION

A	Article	L	Letters	N	Notes and Comments
D	Mining Digest	M	Methods and Machines	O	Obituaries
E	Editorial	ME	Company Meetings	P	Panorama
H	Highlights	MF	Mining Finance	R	Book Reviews
IA	Industry in Action	MW	Mining Week	S	Metal Markets

This combined index covers the complete editorial content of both Mining Journal and Mining Magazine. Additional copies may be obtained from the Subscription Department.

Metals and Minerals

ALUMINIUM

Aluminium plant for New Zealand IA J009
Little action S J011
Consortium smelter plans IA J026
Alba smelter expansion IA J026
Mitsubishi cutback IA J026
Aluminium stockpile for Japan S J037
Go ahead for Orissa project IA J039
U.S. Al for Mitsui IA J040
Hard road ahead MW J053
Alumina plant reconstructed IA J057
Delays and soaring costs hit Aughinish MW J093
Brighter outlook for aluminium S J094
Showa Aluminium denies smelter project withdrawal IA J097
Aluminium complex for Anaconda IA J097
Indonesian smelter plans IA J097
AAEC wins Comalco contract IA J099
Aluminium project doubts MW J107
Aluminium rally continues S J110
Bundaberg site for Alcan IA J154
Noranda smelter expansion IA J154
World Al output IA J155
S.A. aluminium for Taiwan IA J155
Sao Luis partner for Alcoa IA J177
Threat to Tomago IA J177
Dubai power failure affects production IA J178
South Korea buys aluminium IA J198
Japan-U.S. Al talks IA J199
Clarendon talks continue IA J217
Quebec expansion go-ahead IA J218
Indian aluminium IA J218
Argentine Al output soars IA J257
Manitoba smelter studies IA J279
Al plant stake for Alcoa Brazil IA J279
Indonesian smelter schedule IA J279
Work begins at Al complex IA J301
Final approval for Tomago IA J317
Power cut for Kaiser IA J318
South Korea: aluminium tenders IA J319
Dull times for aluminium S J335
Alumax withdraws from NSW smelter project IA J339
Interalumina refinery behind schedule IA J339
Manitoba smelter slated IA J358
Yugoslavian aluminium IA J358
Reynolds potline shut down IA J359
Cost of Tomago power up IA J359
Alumax/Lochinvar - an ulterior motive MW J372
Kaiser maintains Chalmette production IA J378
Lochinvar inquiry delayed IA J392
Bunbury progress IA J302
Alumina plant for Indonesia IA J393
Alcoa smelter cutback IA J393
Sumitomo plans cutback IA J393
Algerian Al Scheme postponed IA J410
Talks on Libyan smelter IA J410
Funds for Irish alumina plant IA J410
Aluminium's role in New Zealand plans P M361
A view of the prospects MW J427
Sardinian refinery plans scrapped IA J436
Bundaberg decision delayed IA J436
Venalum potline damage IA J437
Sumitomo invited to join Al project IA J461
Venalum renegotiates contracts IA J464
Power threat for northwest producers MW J476
New aluminium process studied MW J497
Aluminium shipments dip S J499
Kurri Kurri smelter delays IA J502

ANTIMONY

Antimony up for tender IA J027

ASBESTOS

Zimbabwe asbestos mine closures IA J340

BARYTES

New U.K. activity MW J498

BAUXITE

Joint exploration of Ludwig reserves IA J008
Talks are planned IA J134
Jamaican bauxite promotion IA J180
Vietnamese bauxite IA J217
Jamaica raises bauxite levy IA J302
Bauxite force majeure IA J379
Kibi feasibility studies IA J435
Ludwig bauxite for Alcoa do Brasil IA J483

CHROME

Benguet in near accord over chromite IA J021
Benguet pact on chromite claim IA J059
Finnish involvement in Turkish ferrochrome and copper projects P M009
Sand chrome project IA J113
Chromite mine expansion IA J115
Zimbabwe chrome ore expansion IA J218
Furnace for Romania IA J218
Problems for chrome producers MW J296
Chrome plans abandoned IA J318
Masinloc expansion MW J351
Pakistan chromite find IA J358

COAL

New colliery in doubt MW J005
Coal rights for CRA IA J008
Coal for South Korea IA J010
Montana coal tax IA J010
Solar heating for Coal Creek IA J022
Ulan coal estimates doubled IA J025
Coal gas project IA J025
Erering mine proposal IA J025
Cyprus coal study IA J036
NZ coal development IA J036
Australian coal liquefaction IA J036
Chinese coal output IA J036
Applicants for Winchester South IA J039
GDR mine record IA J040
Hungary reaches target IA J040
La Luz Mines IA J041
Endeavour buys coal concern IA J041
Coal preparation plant IA J041
Brinco acquires coal properties IA J041
Rotary coal breakers IA J041
Coal slurry pipeline IA J057
N.Z. coal for Japanese IA J059
Far-reaching plans for coal MW J073
Japanese to import coal from B.C. IA J079
Queensland coking coal for Taiwan IA J080
Coal - a sense of urgency E M003
Methane emission from stacked coal M M089
A changing fuel mix MW J093
Baltimore coal facility IA J097
Curragh coal contract IA J098
Coal oven contract IA J098
Meekatharra coal exploration IA J113
Help for Indian coal mines IA J115
Kellogg Kaiser wins Synfuels contract IA J115
A striking solution MW J129
Australian coal records M J131
Deposits downgraded IA J133
Kazakhstan coal plant IA J133
Tenders for Egyptian coal IA J135
Coal contract details IA J135
Quintette coal project IA J154
Ghent coal terminal IA J154
Utility terminates supply contract IA J155
Westmoreland Coal contract IA J155
Oaky Creek infrastructure IA J155
Coal suit settlement IA J155
Polish coal shipments delayed IA J155
Coal optimism MW J169
Update on Meekatharra IA J177
SRC study on Victorian coal IA J178
New mine for Czechoslovakia IA J178
Coal reclaimer order IA J179
1984 start for Blair Atholl MW J192
1984 start for Winchester South MW J192
Mozambique coal output IA J197
Zambia coal plant tender IA J198
Coal technology deal IA J199
Chinese readjustment progresses MW J213
Breza coal mine expansion IA J218
G.D.R. coal IA J218
Coal reserves deal IA J219
Boajeospruit three down IA J239
Brazilian coal programme IA J240
U.S. coal via Quebec IA J240
N.S.W. coal for Japan IA J240
Looking for more U.S. coal MW J272
Sparwood coal expansions MW J273
NSW mines get green light IA J279
Witbank coal agreement IA J280
French investment in coal ports IA J281

Filling the Polish export gap — MW J297
Gregory South prospecting bids — IA J300
Coal liquefaction project — IA J301
Coal plan for Salem generators — IA J301
Coal strike persists — MW J313
Bid for Hay Point No. 2 — IA J317
New mine for Consolidation Coal — IA J317
Hungarian coal mine opened — IA J318
Japan and China agree on coal price — IA J318
Coal through Quebec — IA J319
Equipment for B.C. coal facility — IA J319
Queensland coal ventures delayed by government — IA J319
South Australian coal plans — P M285
Grootegeluk opened — MW J353
No deal on West Vickery — IA J340
Coal loading contract — IA J340
Indian coal equipment — IA J340
Oaky Creek approval — IA J358
Mitsubishi seeks coal project stake — IA J358
Coal berth for Taipower — IA J378
Coal-oil mixture — IA J378
Montana coal venture — IA J378
Indian coal plan — IA J378
Amherst Coal for sale — IA J379
Hungary coal reserves — IA J392
Loan for Chilean coal — IA J393
Coal to oil in India — IA J393
G.D.R.: conveyors in mines — IA J393
Australian coal for Japan — IA J394
British coal for Israel — IA J394
Coke for Romania — IA J394
CRA force majeure — IA J394
Gregg River loan — IA J410
Loader goes private — IA J411
Coal price agreements — MW J425
Coal field in Bulgaria — IA J435
Wambo considers mine expansion — IA J435
Idemitsu joins coal project — IA J436
U.S.S.R. coal deposit — IA J436
Callide coal for Queensland — IA J437
Mitsubishi buys U.S. coal — IA J437
Coal gasification — IA J438
Ulan go-ahead — IA J461
New mine for kwaZulu — IA J461
Funds for Indonesian coal — IA J461
Westmoreland Coal closure — IA J463
New railway for coal — IA J463
Indonesian coal output — IA J480
Czech lignite mine — IA J480
New walking dragline at Optimum colliery — IA J481
Inspiration buys coal interests — IA J481
Polish coal exports — IA J481
Japanese seek higher coal prices — IA J482
Richards Bay contract for Strachan and Henshaw — IA J482
Getty concludes Energy Fuels acquisition — IA J482
Australian coal contract — IA J482
New British coal shipping terminal — M J501
Newlands coal project — IA J502
Baal Bone mine approval — IA J502
Mining record at Matla — IA J503
U.S.S.R. cuts coal sales to Japan — IA J503
Government funds for NCB — IA J503
Belvoir under scrutiny — IA J503
Coal marketing agreement — IA J503
Marubeni coal stake offer — IA J504
Belt filters contract — IA J504
U.S. coal delivery agreement — IA J504
Duvha, South Africa — A M444
Trackless at High Moor — A M531

COBALT

ARI drilling — IA J079
Pressure on cobalt producers — S J151
Cobalt cheaper — S J173
Cobalt on ration? — S J194
Cobalt pilot plant — IA J218
Chambishi mine, Zambia — A M293
Cobalt substitution declining — S J390

COLUMBIUM

New plant eases price squeeze — MW J054
Thor Lake results — IA J154

COPPER

Conveyor link for Baluba — MW J005
Bullish view on copper — IA J009
Copper slips — S J011
U.S. copper industry profile — N J017
Copper slides after early rally — S J023
Loan for Tintaya — IA J025
New copper cathode contract — S J037
Quebec drilling — IA J039
El Indio start up date — IA J039
Highmont begins production — IA J040
Copper firmer — S J055
Chile orders power plant — IA J059
Gloom for copper — S J078
Finnish involvement in Turkish ferrochrome and copper projects — P M009
Improved performance at Selebi-Phikwe Botswana — P M011
The Highmont project — A M018
Beneficiation of copper ores in the U.S.S.R. — A M049
Andacollo bidding — IA J097
Paipote closure — IA J098
Anaconda halts copper sales contracts — IA J098
Inspiration considers refinery — IA J099
By-product props — MW J107
Copper cathodes at a premium — S J110
Golden Grove - revised estimates — IA J113
Copper conundrums — N J125
Ok Tedi finance almost complete — MW J128
Change of plans at Sohar — MW J128
Pahang mineral surveys encouraging — IA J133
Some optimism for copper — S J151
Floods hit copper mine — IA J155
Falconbridge may undertake Kilembe feasibility studies — P M125
Copper falls back — S J173
White Pine refinery — IA J177
Polish copper plan — IA J178
Copper Range goes downstream at White Pine — MW J192
Minor rally for copper — S J194
JV for Chilean copper complex — IA J196
Cities to boost copper output — IA J197
Exploration galore! — MW J213
Firmer tone for copper — S J215
Abitibi copper/zinc find — IA J217
Polish copper plans — IA J218
Copper cutback — IA J218
Centromin force majeure — IA J219
Soviet copper exports slump — S J235
Montcalm deposit settlement reached — IA J239
Ansil report — IA J239
Polish copper — A M240
Delicate balance for copper — S J254
Bor capacity to double — IA J257
Copper bottoms — S J275
Philippines copper project — IA J279
Noranda to release Andacolla report — IA J279
Chilean copper mine output — IA J280
Bodies in question — MW J297
Glum forecast for copper — S J298
Exxon offers to sell copper — IA J303
Hayden: $13 million for cleaner air — MW J312
Underground emphasis at Ertsberg — MW J312
Strike threats boost base metals — S J314
Cerro Colorado negotiations — IA J317
Talks on Soviet copper deposit — IA J317
Kidd Creek smelter expansion — IA J318
Chambishi - first copper, Zambia — A M293
Codelco-Chile's development plans — A M364
Driving a 5½km ramp at Gayaky copper mine (S. Urals) — D M339
Finnish prompt for Viscaria start — MW J332
Dizon year one — MW J332
Copper steady — S J335
Assays for Seagull Resources — IA J339
Philippines copper project — IA J340
Puerto Rico study — IA J340
U.S. exports breach anti-dumping law? — MW J353
Little change for copper — S J355
Japan explores B.C. copper — IA J377
Montana prospecting — IA J377
Sar Cheshmeh update — IA J379
Zambia: copper rationalisation — MW J386
Smelter proposals — MW J389
Copper steady — S J390
Anaconda smelter site search — IA J393
Thunder Bay development postponed — IA J393
Force majeure on El Teniente copper — S J408
Official go-ahead for Viscaria — IA J410
Cominco merger — IA J410
Copper improves — S J431
Woodlawn trying the heat treatment — MW J452
Copper gathers strength — S J455
Drilling at Lake Dufault — IA J461
Cu-Ni-Pt in Ontario — IA J461
Anaconda copper returns — IA J464
Reverse for copper — S J478
Sale of Chilean copper deposit — IA J504
Codelco to lift force majeure — IA J504
Development of Cerro Colorado, Panama — P M435
Caraiba Metais — A M483
Strata control in Polish copper mines — D M844

DIAMONDS

Angolan diamond output — IA J009
Ashton joint venture — IA J039
Diamonds in Liberia — A M040
Further step for Ashton — MW J149
Diamond supplies reduced — IA J155
Argyle prospect upgraded — IA J177
Rough ground at Premier — MW J213
De Beers to withhold top grade stones — IA J280
Diamond cutting in Australia — IA J317
Zaire diamond sales — IA J359
Progress in Botswana — MW J373
Ghana's diamond difficulties — IA J393
Yakut diamond mine — IA J410
De Beers to cut production — IA J411
Beneath the sill at Premier diamond mine — P M359
Zaire breaks 14-year link with CSO — MW J425
CDM in Namibia/S.W.A. — MW J452
Credit for C.A.R. diamond study — IA J480

DIATOMITE

Chinese diatomite — IA J461

FLUORSPAR

Armco mine go-ahead — IA J079
New underground fluorspar mine for South Africa — P M383

GEMSTONES

Kaliningrad amber — IA J339
Zambian mine news — IA J393

GERMANIUM

Germanium price rise announced — IA J319
Record price for germanium — S J298

GOLD

Boost for Gencor gold — MW J003
New gold zone at Broulan mines — IA J008
Costa Rica gold mine to begin operation — IA J008
Chinese coin sale — IA J009
Official proposals for Erfdeel-Dankbaarheid — MW J019
Kerema in P.N.G. gold search — IA J025
Seeking gold revival — MW J036
Record Krugerrand sales — IA J041
O'Sullivan Lake progress — IA J057
Straight ahead at Detour Lake — MW J071
Nevada gold — MW J073
Investment selling hits precious metals — S J076
Lake Kozak project underway — IA J079
S.A. gold output falls — IA J080
Capital spending at a peak — MW J083
Approval for world's largest gold mine — MW J091
Calzoni Pit exploration — IA J097
Omni gold and silver assays — IA J097
Pinson on stream — MW J107
Tennant Creek exploration — IA J113
Detour Lake contract for Kilborn — IA J116
Rabbit Warren interest for Amber Gold — IA J133
January Krugerrand sales — IA J134
Gold bar dividends — IA J135
All that glisters — MW J149
Kruger kilo minted — IA J155
Kolar Gold Fields centenary — P M123
Further important South African gold mine plans — P M125
Weaker gold saps enthusiasm — S J173
Martha Hill drilling — IA J177
Griffins Find report — IA J177
Gold Quarry mill considered — IA J177
Tasmania mine development — IA J178
Lingman Lake deposit — IA J178
Santa Clara start up — IA J178
Cyprus seeks Detour Lake stake — IA J178
More Krugerrands for S.A. — IA J180
Boliden gold find — IA J196
Gold at Windbag — IA J196
Dominican Republic refinery — IA J198
Dumagami drilling — IA J217
New lease for Libanon — IA J217
Nevada gold find — IA J217
S.A. gold output — IA J218
Big Bell gold study — IA J239
Salmita gold reassessed — IA J239
N.Z. gold dredging study — IA J239
Wine winder for Lorraine — IA J240
Gold option for Radeavour — IA J240
Go-ahead for Detour Lake gold mine, Canada — P M201
Progress at new Free State mines — MW J252
Epoch evaluates gold tailings — IA J256
Harmony completes drilling — IA J256
Golden opportunities — N J269
Malartic mine closure — IA J280
March Krugerrand sales — IA J280
Macao to issue coins — IA J281
Newmont's Gold Quarry — MW J295
Gold leads a retreat — S J298
TRV gold find — IA J300
Report on Malartic property — IA J300
Big Bell results soon — IA J300
Manitoba mine plan — IA J301
Argosy plans gold production — IA J301
Wattle Gully reopening — IA J301
East Driefontein looks north - and west — MW J311
Queen Charlotte update — IA J317
Chinese gold find — IA J317
Carolin Mines on schedule — IA J317
Golden promise renewed — MW J333
Fijian gold results — IA J339
More results from Big Bell — IA J339
Alaska gold project — IA J339
Cork Tree Well plans — IA J339
BC gold jv — IA J358
Hollinger drops option — IA J358
Krugerrand sales fall — IA J359
Californian gold hope — IA J377
Valiant work — IA J377
Japanese gold — IA J377
Coolgardie gold find — IA J377
Pilot plant for Cusac — IA J378
Gold: review and forum — N J385
Pay porphyry at Malartic — MW J389
Wentworth gold — IA J392
Smoky Valley gold — IA J392
London mine gold — IA J392
Early start at "North Drie" — MW J406
Precious metals retreat — S J408
Shear Lake gold prospect — IA J410
Ok Tedi contract — IA J411
Gold futures — IA J411
Remote Canadian gold mine uses air transport — P M363
No joy at Orogrande — MW J427
Gold values for Explorer Pioneer — IA J435
Indonesian gold-silver prospect — IA J435
Rehabilitation at Wilanour — IA J461
Alligator Ridge on-stream — IA J463
Full production to resume at Sunnyside — IA J463
May Krugerrand sales — IA J464
Bachelor Lake on schedule — MW J477
May S.A. gold output — IA J480
Peruvian gold — IA J481
Coolgardie interest for Western Continental — IA J481
Sao Paulo gold futures — IA J483
Martha Hill prospect — IA J502
Kiena ore reserves — IA J502
Indian gold zone — IA J502
Approval for Erfdeel-Dankbaarheid — IA J502
Ok Tedi dispute avoided — IA J502
S.A. gold output — IA J503
Production test at Pine Creek — IA J503
World's largest gold mine — P M435

IRON

Japanese involvement in Savage River development — IA J039
Hanna iron ore project suspension — IA J040
Stockpile treatment for Craigmont — IA J059
Brazilian iron sales — IA J059
Canadian gloom — MW J075
Cumbrian speculation — MW J075
Iron ore freighter lost — IA J081
Coleraine closure — IA J098
Baoshan mill cancelled — IA J098
Talks on Carajas — IA J113
Production resumes at Hamersley — IA J155
Iron ore interests for CRA — IA J179
Yugoslavia slates iron ore imports — IA J179
Indian iron for Romania — IA J179
Sierra Leone Fe exports — IA J198
The Lisakovsky mining complex — D M270
Iron ore: no upturn yet — N J250
Output of DRI rises — IA J257
Yugoslavian magnetite — IA J300
Wologizi concession extension — IA J301
Japan-Australia: iron ore agreement — IA J302
Indian iron ore for GDR — IA J302
Brazilian iron for German company — IA J319
Plans for mining iron ore in Libya — A M320
U.S. involvement in Mifergui — IA J339
Iron ore for Bin Qasim works — IA J340
Bids for Indian pellet plant project — IA J377
Agreement on sponge plant — IA J379
Problems for iron ore miners — MW J406
DRI plant for Malaysia — IA J411
U.S. iron ore — IA J437
Iron output at Varess — IA J481
Indian iron ore duty — IA J483

LEAD

Little action — S J011
Lead slides — S J037
Lead outlook — IA J040
Lead fails to respond — S J055
Progress at the world's most northerly metal mine — P M007
Samim wins Kivcet license — IA J098
Lead and zinc react to strike — S J130
Iran's smelter plans — IA J133
Preussag smelter closure — IA J133
Advance for lead and zinc — S J151
Lead holds out — S J173
Cyprus declares force majeure — IA J178
Easier tone for lead — S J194
Force majeure on lead/zinc shipments — IA J197
World lead and zinc output — IA J218
Lead falters — S J235
Black Springs prospect — IA J256
Broken Hill lead cut-back — IA J256
Lead hangs on — S J275
Lead easier but zinc holds on — S J298

Lead and zinc follow suit S J314
Indian smelter capacity IA J318
Horoscope for lead N J349
Lady Loretta agreement IA J378
Improvement for lead S J390
Samin force majeure IA J394
Lead perks up S J408
St. Joe Minerals buys lead concentrates IA J412
Revival for lead S J431
Lead rally continues S J455
St. Joe declares force majeure IA J481

LITHIUM

New outlets sought MW J388

MANGANESE

Groote Eylandt A M316
Manganese in Ukraine IA J377
Further manganese reserves in the Cape MW J453
Tambao manganese deposit, Upper Volta P M437

MOLYBDENUM

Tougher times for molybdenum N J049
Mount Pleasant molybdenite IA J057
The Highmont project A M018
Beneficiation of copper ores in the U.S.S.R. A M049
Soviet tungsten/molybdenum mining D M104
Amax and the Indians MW J108
Korean molybdenite find IA J217
Go-ahead for Quartz Hill moly mine IA J239
Mount Pleasant results IA J339
Tonopah schedule IA J393
Go-ahead for Alaskan moly mine P M359
Use of vibrational ore feeders D M418

NICKEL

Inco elaborates on Exmibal and Tiebaghi MW J036
Nickel and mining diversification in New Caledonia D M104
Inco to withdraw discount MW J091
Windarra reopening IA J098
Nickel edges ahead S J130
Meridian results IA J154
Nickel theft IA J155
Patino suit against Amax IA J155
Bubinda nickel project MW J193
U.S. removes ban on nickel alloys IA J258
Bindura output suspended IA J318
Falconbridge Dominicana lateritic nickel mine re-equips P M283
Gag Island nickel outlook not promising P M287
Inco's assessment MW J353
Nickel of the move S J355
Problems for Agnew Mining IA J392
Setback for nickel S J408
Dominicana furnace closure announced IA J410
Nickel import talks IA J412
Grant for Burundi IA J436
Fraser mine on schedule IA J461

OIL

Canada to promote oil investment IA J010
$US100 per barrel in sight! IA J021
Yugoslavian oil shale IA J026
Colorado oil shale project IA J025
Peruvian exports IA J060
Montana oil shales IA J113
Shale oil developments IA J113
Oil shale find for INC IA J133
Rundle could be producing oil from shale by 1990 P M127
Oil shale council IA J197
USSR: oil from coal IA J197
Parahó shale programme IA J317
Japanese interest in oil shale IA J318
S. Australia oil shale find IA J239
Indiana shale oil study IA J239
Chinese oil shale test IA J339
Jordan's phosphate, potash and oil shale plans P M205
Japan in oil shale studies IA J279
Shale oil contract IA J280
Soaring costs for Rundle oil shale MW J295
Utah oil shale project IA J317
Bucket wheel units for tar sand mining A M307
Moroccan oil shale IA J359
Mt. Coolon shale talks IA J392
Alsands cost estimate IA J393
No let-up on energy N J401
CSR oil shale investment IA J410
Condor shale study IA J435
Oil sands uncertainty MW J476

PHOSPHATE

Equipment for Gafsa Mining IA J027
Phosphate overburden contract IA J059
Offshore phosphate IA J196
Niger phosphate exploitation IA J196
Angolan phosphate mining IA J197
Phosphate mining partnership IA J198
Tunisian phosphates IA J210
Christmas changes MW J233
Jordan's phosphate, potash and oil shale plans P M205
Phosphate contract for ANL IA J281
Akashat inaugurated MW J332
Togo phosphate output IA J340
Jordan Mines phosphate A M376
Phosphate from Queensland IA J461
Zambian phosphate plans IA J461

PLATINUM

Platinum refinery for U.K. IA J154
Montana asks for more MW J167
Precious metals retreat S J408
Stillwater platinum-palladium complex IA J502
Platinum at Goodnews Bay IA J503

POTASH

Phase I of potash project IA J008
Aqaba potash terminal IA J098
Dead Sea Potash output IA J155
PCS Mining: Lanigan Division A M136
Jordan's phosphate, potash and oil shale plans P M205
U.S.S.R.: potash find IA J300
Mid-1980s surplus forecast MW J372
Manitoba's first potash mine IA J461

RARE EARTHS

Molycorp rare earths IA J411

RUTILE

Sierra Rutile A M458

SALT

Rock mechanics at Winsford rocksalt mine A M033
Renewed activity at Lake MacLeod P M205

SILVER

Hunt for silver MW J036
Production at Mohawk silver mine IA J057
Nevada Quick Silver MW J073
Silver shortage unlikely S J110
Moroccan silver projects progress MW J128
Production at Que River IA J133
Sunshine seeks merger IA J154
Sam Goosly shipment IA J155
Silver property study IA J196
Silver sales to aid U.S. stockpile purchases S J215
Drake prospect IA J217
Pacific programme IA J217
Venus Ag/Au mine IA J218
Mexican silver venture IA J279
Small comfort for silver S J455
More supply in sight MW J475
Stockpile sales proposals hit silver S J478
Callahan makes good progress MW J495
U.S. producers criticise silver sales S J499
Equity - B.C.'s latest silver mine P M433
Chanarcillo, Chile - a 'museum' makes money P M435

SULPHUR

Pressures on prices MW J005
Sulphur concern MW J252

TANTALUM

Another tantalum find IA J008
Price the key for Tanco MW J429

TIN

CRU tin forecast S J011
Improvement for tin S J023
Tin on the run S J037
GSA tin sales S J037
Little encouragement for tin S J055
Plans for Thai smelter IA J057
Struggle for tin miners N J089
Tin steadier S J076
Loloma seeks jv partner IA J079
Bolivian tin shows fall in 1980 IA J079
Zaire: cassiterite production IA J079
Tin makes headway S J094
Fall in world tin production IA J098
Bushfires halt production IA J115
Tin surplus revision S J130
Tin improves S J151
Malaysian tin output increases IA J155
Australia's largest tin mine P M123
ITA compromise urged S J173
Moratorium on dredging IA J179
Tin accord pessimism S J194
Testing time for tin S J194
East Kemptville sampling IA J196
Kuala Langat development IA J196
Wheal Jane shaft deepening IA J196
Tin talks falter S J215
Tin miners withdraw IA J219
Malaysian tin sale IA J219
Thai tin IA J219
Tin accord unlikely S J235
Tin smelter trial IA J239
Tin and wolfram at Hemerdon IA J279
Tin takes a knock S J298
Further pressure on tin S J314
Malaysian gravel pump tin output IA J318
No respite for tin S J335
Tin drifts lower S J355
South Crofty expansion IA J358
Thai permit for Tongkah IA J359
Tin accord more likely S J374
Recovery for tin S J374
Cornish tin discovery IA J377
Cornish tin closure IA J379
Tin - support buying continues S J390
Tin steady S J431
Tin: background for Geneva N J449
Brief surge for tin S J455
Draft agreement for tin S J499
Tin treatment plant for Futuris IA J503

TITANIUM

Future for titanium plant plans TA J010
Deeside Titanium ownership IA J097
Osaka to double titanium output IA J197
Ti from tailings IA J241

TUNGSTEN

Tungsten agreement sought IA J039
Favourable outlook for WA tungsten project P M007
Soviet tungsten/molybdenum mining D M104
Canada's increasing influence MW J147
Australian tungsten/moly jv IA J256
Tasminex opts out of jv IA J410

URANIUM

McLean Lake uranium IA J008
Westinghouse resolves litigation IA J009
Uranium contract ruling IA J010
Sudanese survey IA J025
Crow Butte uranium IA J039
Uranium for Germany IA J040
Getty uranium settlement IA J040
Uranium plant contract IA J059
Uranium in Argentina IA J079
Ranger uranium contract IA J080
Significant find in Nebraska? MW J091
Canadian uranium resources IA J097
Australia seeks safeguards IA J115
Portuguese to increase uranium production IA J134
Lodeve - a new uranium mine in France A M147
Cleared for take-off MW J171
Eldorado: refinery plans IA J177
Uranium search IA J178
Uranium invites MW J192
Uranium exploration jv IA J196
Mexican uranium find IA J196
Amazon prospecting IA J196
Ben Lomond bearing IA J197
Mounana plant contracts IA J198
Uranium: compromise, controversy, construction MW J212
Uranium Canada shift MW J212
Key Lake OK MW J213
Wyoming mining suspension IA J218
South Australian uranium to be mined in situ P M201
Moratorium to continue IA J258
Uranium safeguards agreed IA J258
Cluff Lake uranium for France IA J281
Lake Way uranium project IA J300
Mary Kathleen/Agip jv IA J300
Uranium partnership dissolved IA J301
End of uranium litigation IA J341
Colombian uranium reserves IA J358
Portuguese uranium move IA J361
Zambian uranium IA J377
Uranium in Macedonia IA J377
Exxon-Gulf Oil settlement IA J379
CRA pays Westinghouse IA J379
Uranium mill closure IA J411
New Jersey uranium ban IA J411
Uranium for Western Nuclear IA J412
Ranger reserves raised IA J435
CRA uranium search IA J435
MKU yellowcake leaves Brisbane IA J437
Canada considers uranium cartel action IA J463
Ranger uranium for Belgium IA J464
Japan explores Australian uranium IA J480
Damages for Reserve Oil IA J482
Uranium enrichment feasibility study MW J496
Donegal uranium project IA J502

ZINC

St. Joe renews zinc production IA J009
Little action S J011
U.S. Mint to use more zinc S J023
St. Joe zinc IA J036
Paradox for zinc S J076
Thai Zinc discussions IA J081
Opposition to zinc cent IA J081
Lead and zinc react to strike S J130
Advance for lead and zinc S J151
First bar for Cajamarquilla IA J197
Nepal zinc-lead deposit IA J217
Sumitomo zinc and lead plans IA J218
Focus on zinc S J275
Thai Zinc consortium undecided IA J279
Zinc: a doubtful star N J293
Lead easier but zinc holds on S J298
Lead and zinc follow suit S J314
Zinc maintains momentum S J355
Zinc plant closures IA J359
Metal price predictions S J374
Cajamarquilla inauguration IA J393
Black Angel reviewed MW J405
Bunker Hill smelter IA J411
Cominco denies zinc purchases IA J412
Zinc under pressure S J431
Mint julep for zinc? S J478
Rajasthan zinc find IA J502

Countries

ALGERIA

Five-year plan MW J053
Algerian Al scheme postponed IA J410

ANGOLA

Angolan diamond output IA J009
Angola diamond output up N M133
Angolan phosphate mining IA J197

ARGENTINA

Argentina's mining promise N J001
Uranium in Argentina IA J079
Argentina opens mining registry IA J115
Argentina encourages prospecting N M131
Argentina prospecting loans IA J318

San Luis U to be mined H M211
Argentine Al output soars IA J257
Argentina/Uruguay U co-op H M371

AUSTRALIA

UMC joint programme with North Kalgurli IA J008
Amoco withdraws from jv IA J009
Future for titanium plant plans IA J010
Australian nodules IA J025
Eraring mine proposal IA J025
Consortium smelter plans IA J026
Australian coal liquefaction IA J026
Fraser Island sand mining IA J027
Ashton jv IA J039
Japanese involvement in Savage River development IA J039
Applicants for Winchester South IA J039
Comalco fuel study IA J039
Assays from Big Bell IA J057
Aborigines v Alcoa IA J057
Phosphate overburden contract IA J059
NSW safety measures IA J059
Strike affects coal loaders IA J060
ARI drilling IA J079
Loloma seeks jv partner IA J079
Queensland coking coal for Taiwan IA J080
Ranger uranium contract IA J080
WMC to wait a year IA J081
Favourable outlook for WA tungsten project P M007
Monarch's unexpected Au find H M013
BHP/WMC joint nickel venture H M013
Rabbit Warren move H M013
North Kalgurli buys stake in Teton H M013
Honeymoon proposals outlined H M013
Big Bell results H M013
Australian mining in good heart N J089
Calzoni Pit exploration IA J097
Eneabba takes over sand leases IA J097
Windarra reopening IA J098
Curragh coal contract IA J098
Coal oven contract IA J098
Japan sells bulk carriers IA J099
Aluminium projects doubts MW J107
Meekatharra coal exploration IA J113
Tennant Creek exploration IA J113
Aborigine dispute over IA J113
Bushfires halt production IA J115
Australia seeks safeguards IA J115
Australian coal records M J131
Deposits downgraded IA J133
Rabbit Warren interest for Amber Gold IA J133
Oil shale find for IMC IA J133
Production at Que River IA J133
Australian phosphate and sulphur imports IA J134
Further step for Ashton MW J149
Bundaberg site for Alcan IA J154
Oaky Creek infrastructure IA J155
Australia's largest tin mine P M123
Rundle could be producing oil from shale by 1990 P M127
CSR joins Mitsui study H M131
BHP/Taiwan coal contract H M131
BHI move into coal H M133
Cleared for take-off? MW J171
Argyle prospect upgraded IA J177
Update on Meekatharra IA J177
Griffins Find report IA J177
Threat to Tomago IA J177
SRC study on Victorian coal IA J178
Tasmania mine development IA J178
Uranium search IA J178
1984 start for Blair Atholl MW J192
1984 start for Winchester South MW J192
Yandicoogina reserves detailed IA J196
Gold at Windbag IA J196
Ben Lomond hearing IA J197
Mount Newman strike ends IA J199
Consolidated Gold Fields Australia MF J204
Drake prospect IA J217
Ulan development loan IA J218
Return to work at Broken Hill IA J219
Big Bell gold study IA J239
S. Australia oil shale find IA J239
N.S.W. coal for Japan IA J240
Worsley contract for Cable Belt IA J240
Seamen refuse yellowcake handling IA J240
Mining townships E M199
South Australian uranium to be mined in situ P M201
Renewed activity at Lake MacLeod P M205
Pandanus Creek U results H M213
Ta and Sn finds H M213
Mt. Gunson move by CSR H M213
Golden Grove Cu estimate raised H M213
Rabbit Warren details H M213
Windarra Ni possibility H M213
Latest Big Bell results H M213
Capricorn Coal for Taiwan H M213
Drilling programme in Archaringa Basin H M213
Deposits are downgraded H M215
Groote Eylandt A M216
Underground at Ardlethan? MW J253
Epoch evaluates gold tailings IA J256
Australian tungsten/moly jv IA J256
Black Springs prospect IA J256
Broken Hill lead cut-back IA J256
Japan baulks at Australia IA J257
Uranium safeguards agreed IA J258
1980 outputs, exports MW J273
Japanese interest in Australian oil shale studies IA J279
NSW mines get green light IA J279
Phosphate contract for AHL IA J281
Australian superphosphate subsidy for scrutiny IA J281
Soaring costs for Rundle oil shale MW J295
Lake Way uranium project IA J300
Gregory South prospecting bids IA J300
Big Bell results soon IA J300
Mary Kathleen/Agip jv IA J300
Argosy plans gold production IA J301
Wattle Gully reopening IA J301
Japan/Australia: iron ore agreement IA J302
Hay Point contract for Babcock-Moxey IA J303
Australian engineering agreement IA J303
Call for special resource tax MW J311
Bid for Hay Point No. 2 IA J317
Final approval for Tomago IA J317
Diamond cutting in Australia IA J317
Thiess Holding division sold IA J319
Queensland coal ventures delayed by government IA J319
South Australian coal plans P M285
CRA buys Texasgulf Fe interest H M290
BP consortium gains Winchester rights H M291
Que River Zn/Pb/Ag on stream H M291
Yandicoogina high grade reserves up H M291
U.S. Steel applies for U licence H M291
Golden promise renewed MW J333
Mount Pleasant results IA J339
More results from Big Bell IA J339
Alumax withdraws from NSW smelter project IA J339
Comalco considers kaolin operation IA J339
Cork Tree Well plans IA J339
No deal on West Vickery IA J340
Oaky Creek approval IA J358
Koongarra mining in question IA J358
Cost of Tomago power up IA J359
Unions against uranium IA J361
Agreement on coal loader IA J361
Alumax/Lochinvar - an unexpected motive MW J372
Valiant work IA J377
Mareeba option on Queensland prospects IA J377
Coolgardie gold find IA J377
Lady Loretta agreement IA J378
Wentworth gold IA J392
London mine gold IA J392
Mt. Coolon shale talks IA J392
Problems for Agnew Mining IA J392
Lochinvar inquiry delayed IA J392
Bunbury progress IA J392
Australian coal for Japan IA J394
Queensland Mines settlement IA J394
Problems for iron ore miners MW J406
Victor keeps drilling IA J410
Tasminex opts out of jv IA J410
Loader goes private IA J411
Australian U for Egypt H M367
S. Australia oil shale find H M367
Fe ore exports to Japan cut H M367
Coal evaluation agreement H M367
Coal price agreements MW J425
Further funds for Elura MW J429
Ranger reserves raised IA J435
Gold values for Explorer Pioneer IA J435
Condor shale study IA J435
Wambo considers mine expansion IA J435
Bundaberg decision delayed IA J436
Cable Belt contract IA J437
Callide coal for Queensland IA J437
MKU yellowcake leaves Brisbane IA J437
Disputes at Somersley Holdings IA J438
Woodlawn trying the heat treatment MW J452
Phosphate from Queensland IA J461
Ulan go-ahead IA J461
Sumitomo invited to join Al project IA J461
Australia to challenge U.S. court IA J464
Japan explores Australian uranium IA J480
Amoco continues Glen Innes drilling IA J480
Coolgardie interest for Western Continental IA J481
Australian coal contract IA J482
Newcastle coal strikes IA J483
Exploration on aboriginal land IA J483
Uranium enrichment feasibility study MW J496
Kurri Kurri smelter delays IA J502
Newlands coal project IA J502
Baal Bone mine approval IA J502
Production test at Pine Creek IA J503
Tin treatment plant for Futuris IA J503
Mining royalties in Northern Territory IA J503
Coal marketing agreement IA J503
Coolgardie Au encounter H M443
Final go-ahead for Tomago smelter H M443
Jabiluka U plans scaled down H M443
Japanese to pay 8.5% more for Fe ore H M443
U enrichment project recommended H M443
Japanese promote liquefaction project H M443
Handling and crushing equipment for Australia M M555

BAHRAIN

Kudremukh ore for Bahrain? IA J340

BANGLADESH

Bangladesh-Romania agreement IA J057
Saudi aid for Third world IA J358

BARBADOS

Cement plant to be constructed H M131

BELGIUM

Ghent coal terminal IA J154
Société Générale - mining facets MW J405
Ranger uranium for Belgium IA J484

BOLIVIA

Antimony up for tender IA J027
Bolivian tin shows fall in [illegible] IA J079
Work begins on Bolivian Pb/Ag plant H M017
Government regeneration plan draws sharp response MW J170
Bolivia to step up U hunt H M391
Bolivia: move to boost Sn production H M371

BOTSWANA

Improved performance at Selebi-Phikwe, Botswana P M011
Progress in Botswana MW J373

BRAZIL

Joint exploration of Ludwig reserves IA J008
New plant eases price squeeze MW J054
Brazilian iron sales IA J059
Talks on Carajas IA J113
Sao Luis partner for Alcoa IA J177
Amazon prospecting IA J196
Brazilian coal programme IA J240
Brazil Fe export deals H M211
Al plant stake for Alcoa Brazil IA J279
Brazilian ore for Japan IA J302
Brazilian iron for German company IA J319
Sao Luis smelter plans H M291
Amazon U search H M291
Brazilian investment for Japan IA J358
Brazil-Poland talks IA J394
Brazil: boost for coal H M371
Japanese companies buy Carajas Fe ore H M371
Sao Paulo gold futures IA J483
Ludwig bauxite for Alcoa do Brasil IA J483
Plans and forecasts MW J495
Japanese to invest more in Al project H M441
Carajas ore for Korf-Stahl H M443
Caraiba Metais A M483

BULGARIA

Bulgarian Cu mine on stream H M369
Coal field in Bulgaria IA J435

BURUNDI

Buhinda nickel project MW J193
Grant for Burundi IA J436

CANADA

Another tantalum find IA J008
New gold zone at Broulan mines IA J008
Phase I of potash project IA J008
McLean Lake uranium IA J008
Brunswick delays project IA J009
Canada to promote oil investment A J010
Hunt for silver MW J036
Quebec drilling IA J039
Highmont begins production IA J040
Nuclear instrumentation IA J041
O'Sullivan Lake progress IA J057
N. America metals output IA J057
Quebec company changes name IA J059
Further massive layoffs IA J060
Straight ahead at Detour Lake MW J071
Canadian gloom MW J075
D'Or Val results IA J079
Lake Kozak project underway IA J079
Japanese to import coal from B.C. IA J079
Granduc resumes production IA J080
Mine hoist order IA J080
Inco awards refinery contract IA J080
Romania seeks reactor deal IA J080
B.C. mineral expenditure IA J081
Progress at the world's most northerly metal mine P M007
Further development on Agassiz property H M017
Hudson Bay in Trout Lake jv H M017
Echo Township feasibility study H M017
The Highmont project A M018
Omai gold and silver assays IA J097
Canadian uranium resources IA J097
Magnesium plant delayed IA J113
Japan-Canada joint study IA J113
Detour Lake contract for Kilborn IA J116
Craigmont exploration IA J133
Coal contract details I. J135
Canada's increasing influence MW J147
Thor Lake results IA J154
Camflo reports on Malartic lease IA J154
Quintette coal project IA J154
Sam Goosely shipment IA J155
Nickel theft IA J155
Inco estimates Canadian U deposit H M135
Eskimo finance for Cullaton Lake H M135
PUK may build Canadian Al plant H M135
Alcan smelter on stream H M135
PCS Mining: Lanigan Division A M136
Dome Mines drilling programme IA J177
Eldorado: refinery plans IA J177
Lingman Lake deposit IA J178
Cominco modernisation plans IA J178
Cyprus seeks Detour Lake stake IA J178
East Kemptville sampling IA J196
Uranium Canada shift MW J312
La Sal on schedule MW J312
Key Lake OK MW J213
Dumagami drilling IA J217
Pacific programme IA J217
Abitibi copper/zinc find IA J217
Venus Ag/Au mine IA J218
Quebec expansion go-ahead IA J218
Asbestos Corp. ruling IA J219
Grants for Ontario mineral development IA J219
Ontario: energy and mineral plans MW J234
Salmita gold reassessed IA J239
Montcalm deposit settlement reached IA J239
Ansil report IA J239
Mining townships E M199
Go-ahead for Detour Lake gold mine, Canada P M201
Canadian U_3O_8 for F.R.G. H M215
B.C. coal for Japan H M215
Asbestos Corp. Mg delay H M215
Lexington property programme IA J256
Freight rates renegotiated IA J257
Moratorium to continue IA J258
Sparwood coal expansions MW J273
Manitoba smelter studies IA J279
Malartic mine closure IA J280
Demag belt conveyor system for Canada IA J280
XIV International Mineral Processing Congress, Toronto M J299
TRV gold find IA J300
Report on Malartic property IA J300
Manitoba mine plan IA J301
Queen Charlotte update IA J317
Carolin Mines on schedule IA J317
Coal through Quebec IA J319
Equipment for B.C. coal facility IA J319
Au at Opapimiskan Lake H M291
Abitibi Cu/Zn find in Ontario H M291
Hudson Bay to upgrade Zn refinery H M291
Bucket wheel units for tar sand mining A M307
Assays from Seagul Resources IA J339
July target for Highland Valley IA J340
Canada's largest conveying system M J356
BC gold jv IA J358
Manitoba smelter slated IA J358
Hollinger drops option IA J358
Nishga v Amax IA J379
Pay porphyry at Malartic MW J389
Thunder Bay development postponed IA J393
Alsands cost estimate IA J393
Shear Lake gold prospect IA J410
Gregg River loan IA J410
Colliery cars for Nova Scotia IA J412
Remote Canadian gold mine uses air transport P M363
Large sulphide find at Lake Dufault H M373
Au find at Kenora H M373
Teck/Grenoble exploration H M373

Quebec Al expansion by Reynolds H M373
San Antonio reopening H M373
Idemitsu joins coal project IA J436
Amax operations resume at Kitsault IA J436
Cominco contract talks IA J438
Drilling at Lake Dufault IA J461
Cu-Ni-Pt in Ontario IA J461
Rehabilitation at Wilamour IA J461
Manitoba's first potash mine IA J401
Fraser mine on schedule IA J461
Canada considers uranium cartel action IA J463
Kitsault warning IA J463
Cominco seeks Valley mine contracts IA J464
Oil sands uncertainty MW J476
Bachelor Lake on schedule MW J477
Kem property agreement IA J483
Kiena ore reserves IA J502
Equity - B.C.'s latest silver mine P M433
Kidd Creek smelter expansion H M439
Japanese to explore for Cu in B.C. H M439
Carolin Au for July H M439
Sturgeon Lake assays show Cu, Zn and Ag H M439

CENTRAL AFRICAN REPUBLIC

Credit for C.A.R. diamond study IA J480

CHILE

El Indio start up date IA J039
Chile orders power plant IA J059
Chilean tender for Andacollo Cu H M017
Andacollo bidding IA J097
Paipote closure IA J098
Drilling near El Indio IA J154
El Indio on stream in June H M131
JV for Chilean copper complex IA J196
Chile: cautious confidence N J229
Mitsubishi to build Chilean plant H M211
A golden cap for St. Joe MW J253
Japan agrees to import Chilean iron ore IA J257
Chilean copper mine output IA J280
El Teniente strike IA J320
Chilean exploration H M291
Codelco-Chile's development plans A M304
Strike talks at El Teniente IA J341
Chile copper talks IA J379
Loan for Chilean coal IA J393
Chile approves Codelco budget IA J411
El Teniente proposals rejected IA J412
El Indio Au estimate up H M371
Exploration continues H M371
Crushers at Mantos Blancos IA J438
Chilean jv for St. Joe IA J480
Sale of Chilean copper deposit IA J504
Chilean contract for Morrison-Knudsen IA J505
Chuquicamata agreement IA J505
Chanarcillo, Chile - a 'museum' makes money P M435

CHINA

Chinese coin sale IA J009
Chinese coal output IA J026
Baoshan mill cancelled IA J098
Baoshan compensation for Japan IA J133
China's volte face N J165
Chinese readjustment progresses MW J213
Chinese oil shale test IA J239
China: less coal in 1980 H M209
Coal liquefaction project IA J301
Chinese gold find IA J317
Coal preparation plant for China M J336
Japanese seek Baoshan compensation IA J340
Logging systems for China IA J394
Chinese diatomite IA J461
Japanese pay more for Chinese coal IA J488
Fresh Chinese Au find H M439

COLOMBIA

Colombia: illegal mining IA J059
Colombia mining development plan IA J217
Colombia: boost for mining sector H M211
El Cerrejon contract IA J280
Colombian uranium reserves IA J358
Colombia: boost to mining IA J359
Colombian U reserves detailed H M441

COSTA RICA

Costa Rica gold mine to begin operation IA J008
Santa Clara start up IA J178

CYPRUS

Cyprus coal study IA J026

CZECHOSLOVAKIA

Czech-Yugoslav contract IA J027
Ostrava coalfield to be expanded southwards H M015
New mine for Czechoslovakia IA J178
Exploration agreement for Mozambique and Czechoslovakia IA J480
Czech lignite mine IA J480

DENMARK

Black Angel reviewed MW J405

DOMINICAN REPUBLIC

Government back mining activity MW J149
Dominican Republic refinery IA J198
Falconbridge Dominicana lateritic nickel mine re-equips P M283

DUBAI

Dubai power failure affects production IA J178

EGYPT

Tenders for Egyptian coal IA J135
India to import Egyptian Al IA J437

EIRE

Delays and soaring costs hit Aughinish MW J093
Bula application rejected IA J393
Funds for Irish alumina plant IA J410
Eire prospecting IA J502
Donegal uranium project IA J502

FINLAND

Finnish involvement in Turkish ferrochrome and copper projects P M009
Finnish fertiliser expansion H M209
Finnish prompt for Viscaria start MW J332
Effective Finnish range for slurry handling M J356
Finnish programme in Kenya IA J480

FRANCE

Lodeve 1 a new uranium mine in France A M147
France-Indonesia energy co-operation IA J217
Approach to pilot-scale tests at BRGM, France D M270
Ball mill grinding on a pilot plant scale D M271
Fines for Amax and BRGM IA J258
French investment in coal ports IA J281
Cluff Lake uranium for France IA J281
Peru-France mining agreement IA J463
Pechiney to buy Brandeis Goldschmidt IA J464
Mine roof bolting IA J505

GABON

Mounana plant contracts IA J198

GERMANY (EAST)

GDR mine record IA J040
Aid for Mozambique IA J059
G.D.R. coal IA J218
G.D.R.: conveyors in mines IA J393

GERMANY (WEST)

Uranium for Germany IA J040
Preussag smelter closure IA J133
Boring machine for W. German salt mine M J153
International mining exhibition and congress, Dusseldorf A M315
Export success for Continental conveyors IA J359
More F.R.G. coal sought by G.D.R. H M367
Bergbau 81 - Dusseldorf, F.R.G. M J432
Success assured at "Bergbau" MW J454
International Mining Exhibition - what's on show A M490

GHANA

Seeking gold revival MW J036
Thickener for Ghana IA J179
Ghana's diamond difficulties IA J393
Kibi feasibility studies IA J435
CAST may withdraw from Ghana IA J503

GREECE

Equipment for expanding Greek lignite industry M J195
Sorters for Grecian Magnesite IA J257
Greek mining concessions IA J392

GUATEMALA

Exmibal decision at year-end IA J463

GUINEA

Uranium invites MW J192
Guinea's development drive H M290
U.S. involvement in Mifergui IA J339
U.S. Steel joins Guinea Fe ore project H M441

HUNGARY

Hungary reaches target IA J040
Alumina plant reconstructed IA J057
Hungarian coal mine opened IA J318
Hungary coal reserves IA J392

ICELAND

Geothermal energy in Iceland A M543

INDIA

Go ahead for Orissa project IA J039
Indian order for Ransomes & Rapier IA J041
India to restart Au exploration H M013
India to invest heavily in coal H M013
GSI enters offshore mineral exploration H M015
Chromite mine expansion IA J115
Help for Indian coal mines IA J115
U.K. mining shovels for India M J153
Kolar Gold Fields centenary P M123
Indian W discovery H M133
Indian iron for Romania IA J179
Indian aluminium IA J218
India/U.K. coal co-op H M211
Work begins at Al complex IA J301
Indian iron ore for GDR IA J302
Indian smelter capacity IA J318
India buys Malaysian tin IA J319
Kudremukh ore for Bahrain? IA J340
Indian coal equipment IA J340
Draglioe buckets contract for India IA J341
Bids for Indian pellet plant project IA J377
Indian coal plan IA J378
Coal to oil in India IA J393
Indian Zn/Pb find H M371
India to import Egyptian Al IA J437
Indian seabed mining IA J461
Iran to pay for Kudremukh ore project IA J483
Indian iron ore duty IA J483
Indian gold zone IA J502
Rajasthan zinc find IA J502
Kudremukh payment IA J503
Indian U find H M439
Arab aid for Indian alumina project? H M439

INDONESIA

Far reaching plans for coal MW J073
Contract for West Irian exploration H M015
Indonesian smelter plans IA J087
France-Indonesia energy co-operation IA J217
Indonesian smelter schedule IA J279
Underground emphasis at Ertsberg MW J312
Gag island nickel outlook not promising P M287
Alumina plant for Indonesia IA J393
Indonesian gold-silver prospect IA J435
Funds for Indonesian coal IA J461
Indonesian coal output IA J480

IRAN

Iran's smelter plans IA J133
Iran: Pb/Zn smelters plan H M211
Sar Cheshmeh update IA J379
Iran to pay for Kudremukh ore project IA J483
Kudremukh payment IA J503

IRAQ

Akashat inaugurated MW J332

ISRAEL

Timna copper for Spain IA J134
Dead Sea Potash output IA J155

ITALY

Agip acquire stake in Minatome H M015
Italy opts for Ocean Mining H M131
ENI/Occidental jv IA J196
Samim force majeure IA J394
Sardinian refinery plans scrapped IA J436

JAMAICA

Jamaican strike averted IA J134
Talks are planned IA J134
Jamaican bauxite promotion IA J180
Clarendon talks continue IA J217
Jamaica raises bauxite levy IA J302

JAPAN

Japan-Peru jv IA J039
Japan/U.S. study Alaska coal project H M015
Japan sells bulk carriers IA J099
Japan proposes legislation MW J109
Japan-Canada joint study IA J113
U.K. sells platinum catalysts to Japan IA J116
Baoshan compensation for Japan IA J133
Osaka to double titanium output IA J197
Japan-U.S. Al talks IA J199
Japanese Co. to import N.Z. coal H M209
Japan agrees to import Chilean iron ore IA J257
Japan baulks at Australia IA J257
Looking for more U.S. coal MW J272
Japan in oil shale studies IA J279
Brazilian ore for Japan IA J302
Japan and China agree on coal price IA J318
Japanese seek Baoshan compensation IA J340
Brazilian investment for Japan IA J358
Japan explores B.C. copper IA J377
Japanese gold IA J377
Sumitomo plans cutback IA J393
Japan negotiates Mauritanian iron ore IA J412
Nickel import talks IA J412
Japanese seek higher coal prices IA J482
Japanese pay more for Chinese coal IA J482
New aluminium process studied MW J497
S. Japan Au find H M439

JORDAN

Aqaba potash terminal IA J098
Jordan's phosphate, potash and oil shale plans P M205
Arab energy alternatives MW J351
Jordan Mines phosphate A M376
Armico A M404
Giant walking dragline in Jordan M J500

KENYA

Finnish programme in Kenya IA J480

KOREA (SOUTH)

Coal for South Korea IA J010
Keco to buy Australian coal H M133
South Korea buys aluminium IA J198
Korean molybdenite find IA J217
South Korea: aluminium tenders IA J319
South Korean find H M373

LESOTHO

Lesotho diamond developments H M211

LIBERIA

Diamonds in Liberia A M040
Wologizi concession extension IA J301

LIBYA

Libyan contract for Midrex IA J302
Plans for mining iron ore in Libya A M320
Talks on Libyan smelter IA J410

MACAO

Macao to issue coins IA J281

MALAWI

Mining equipment to Malawi IA J135

MALAYSIA

Pengkalen dredge sinks IA J040
Pahang mineral surveys encouraging IA J133

Malaysian tin output increases IA J155
Floods hit copper mine IA J155
Malaysian tin mission to U.S. IA J156
Kuala Langat development IA J196
Malaysian tin sale IA J219
Pahang Cu hope H M209
Malaysian tin output to fall IA J256
Malaysian mining suspension IA J280
Malaysian gravel pump tin output IA J318
India buys Malaysian tin IA J319
Malaysian mine production IA J378
DRI plant for Malaysia IA J411

MAURITANIA

Japan negotiates Mauritanian iron ore IA J412

MEXICO

Mining equipment for Mexico IA J025
Kennecott buys stake in Mexican Ag company H M017
Mexico U outlook good H M017
Mexican uranium find IA J196
Credit for Mexican metals IA J199
Mexican silver venture IA J279
Mexican-Spanish jv IA J317
$250M loan for Industrial Minera H M291
Wage rise for Mexicans IA J361
Eyes on Mexico H J369
Mexico: new U find H M371
Strike at Mexican mines IA J505

MOROCCO

Moroccan mineral rights zone IA J010
Moroccan silver projects progress MW J128
Morocco acts on Law of the Sea H M133
Japanese interest in oil shale IA J218
Armico stake in Moroccan Companies H M290
Moroccan oil shale IA J359

MOZAMBIQUE

Aid for Mozambique IA J059
Mozambique coal output IA J197
End of Mozambique embargo? IA J199
Mozambique mineral survey IA J317
Exploration agreement for Mozambique and Czechoslovakia IA J480
Mozambique survey planned H M441

NAMIBIA

Confrontation in southern Africa MW J051
Rossing exploration IA J392
CDM in Namibia/S.W.A. MW J452

NEPAL

Nepal zinc-lead deposit IA J217

NETHERLANDS

Coal technology deal IA J199

NEW ZEALAND

Aluminium plant for New Zealand IA J009
NZ coal development IA J026
N.Z. coal for Japanese IA J059
2nd Al plant for N.Z. H M133
Martha Hill drilling IA J177
N.Z. gold dredging study IA J239
N.Z. synthetic fuels study IA J239
NZ ironsands negotiations IA J379
Aluminium's role in New Zealand plans P M361
N.Z. probes seabed mining H M367
Martha Hill prospect IA J502

NIGER

Niger phosphate exploitation IA J196

NIGERIA

Guinea attracts Nigeria H M290

NORWAY

Drilling equipment pact IA J481

OMAN

Change of plans at Sohar MW J126
Refinery for Oman Cu project H M209
Nitro Nobel in Oman IA J505

PACIFIC ISLANDS

Kerema in P.N.G. gold search IA J025

Nickel and mining diversification in New Caledonia D M104
Government takes Ok Tedi stake IA J115
Ok Tedi finance almost complete MW J128
Chromite mining in New Caledonia H M133
Ok Tedi Mining Ltd. in four-wheel drive MW J167
Exploration galore! MW J213
Christmas changes MW J233
Bougainville money mandate IA J280
Compensation for Banabans IA J320
Fijian gold results IA J339
Ok Tedi contract IA J411
Ok Tedi dispute avoided IA J502
Latest results from Fijian Au prospect H M443

PAKISTAN

Iron ore for Bin Qasim works IA J340
Pakistan chromite find IA J358
Zia orders enquiry IA J361

PANAMA

Cerro Colorado delay IA J154
Cerro Colorado negotiations IA J317
Development of Cerro Colorado, Panama P M433

PERU

Loan for Tintaya IA J025
Japan-Peru jv IA J039
Peru: general strike IA J060
Peruvian exports IA J080
Mineroperu loan for Cajamarquilla H M017
Peruvian promise N J105
Centromin strike IA J156
Tintaya financing obtained H M131
Japan/Peru Pb/Zn venture H M131
Centromin developments MW J169
SPCC awaits decision MW J169
Peru: finance for smaller mines IA J178
Peru legislates MW J191
First bar for Cajamarquilla IA J197
Cuajone strike IA J219
Ilo smelter IA J219
Cuajone back to normal IA J240
Peruvian miners hold off strike IA J341
Cajamarquilla inauguration IA J393
Peru-France mining agreement IA J463
Peruvian gold IA J481

PHILIPPINES

Benguet in dispute over Dizon MW J019
Benguet in near accord over chromite IA J021
Benguet strike IA J027
Sand chrome project IA J113
Amax/Kawasaki Steel to join Philippine project H M209
Philippines copper project IA J279
Dizon year one MW J332
Philippines copper project IA J340
Masinloc expansion MW J351
Coal-grinding plant for Philippines IA J504

POLAND

Poland's tightrope N J033
Polish coal shipments delayed IA J155
Polish copper plan IA J178
Polish copper plans IA J218
Polish copper A M240
Sulphur concern MW J252
Filling the Polish export gap MW J297
Polish port to handle Swedish ore IA J303
Soviet exports to Poland IA J394
Brazil-Poland talks IA J394
Polish coal exports IA J481
Poland - precarious summer N J493
Strata control in Polish copper mines D M564

PORTUGAL

Portuguese to increase uranium production IA J134
Portuguese U_3O_8 output up by 1985 H M209
Portuguese uranium move IA J361
Portugal: U mining open to private sector H M443

PUERTO RICO

Puerto Rico study IA J340

ROMANIA

Bangladesh-Romania agreement IA J057
Romania seeks reactor deal IA J080
Indian iron for Romania IA J179
Furnace for Romania IA J218
Coke for Romania IA J394

SAUDI ARABIA

Red Sea muds - a potential metal source D M106
Saudi aid for Third world IA J358

SIERRA LEONE

Sierra Leone Fe exports IA J198
Sierra Rutile A M458

SINGAPORE

Asian mining SI M J038

SOUTH AFRICA

Boost for Gencor gold MW J003
Large hydraulic thickeners M J007
Official proposals for Erfdeel-Dankbaarheid MW J019
Slimes dams IA J041
S.A. shaft contract IA J041
Record Krugerrand sales IA J041
Raymond Mill for S.A. IA J041
S.A. sales to Taiwan IA J059
South Africa - a challenging year N J070
Armco mine go-ahead IA J079
S.A. gold output falls IA J080
Taiwan seeks South African uranium IA J081
Capital spending at a peak MW J083
Minador on stream H M015
Approval for World's largest gold mine MW J091
Explosives factory for S.A. IA J113
January krugerrand sales IA J134
Kruger kilo minted IA J155
S.A. aluminium for Taiwan IA J155
Miners killed in rockfall IA J156
Further important South African gold mine plans P M125
More Krugerrands for S.A. IA J180
S.A. labour agreement IA J180
End of Mozambique embargo? IA J199
Rough ground at Premier MW J213
New lease for Libanon IA J217
Cobalt pilot plant IA J218
S.A. gold output IA J218
Direct Reduction IA J219
Another first for O'okiep MW J231
Bosjesspruit three down IA J239
Mine winder for Loraine IA J240
Progress at new Free State mines MW J252
Harmony completes drilling IA J256
R44 million capex at Simmer & Jack IA J256
Richards Bay minerals output IA J256
Full year from Black Mountain IA J257
Golden opportunities N J269
March Krugerrand sales IA J280
Witbank coal agreement IA J280
Problems for chrome producers MW J296
Texasgulf South African find IA J300
East Driefontein looks north - and west MW J311
Heat tolerance testing centre W J315
New underground fluorspar mine for South Africa P M283
Grootegeluk opened MW J333
Gencor drilling in OFS IA J358
Krugerrand sales fall IA J359
Pay talks for S.A. whites IA J361
Elandsrand's troubles MW J371
Progress at Cooke No. 3 IA J378
Fire at Western Areas IA J378
S.A. labour settlements IA J379
Early start at "North Drie" MW J406
East Rand mine fire IA J411
Rand London acquisition IA J411
Beneath the sill at Premier diamond mine P M359
Richards Bay on target M M369
PROMIS - a mine planning aid A M390
Further manganese reserves in the Cape MW J453
New mine for kwaZulu IA J461
May Krugerrand sales IA J464
Tax shield for Ergo MW J475
May S.A. gold output IA J480
New walking dragline at Optimum colliery IA J481
Rise for S.A. mine officials IA J483
Labour the key MW J496
Approval for Erfdeel-Dankbaarheid IA J502
S.A. gold output IA J503
S.A. contracts for Mitchell Cuts IA J504
World's largest gold mine P M435
S. African Au/Ag H M441
Mn finds H M441
Duvha, South Africa A M444

SPAIN

Tisma copper for Spain IA J134
Aznalcollar well in stride MW J272
Spain revisited N J309
Mexican-Spanish jv IA J317

SRI LANKA

U find in Sri Lanka H M135
Contracts for U.K. manufacturer IA J198

SUDAN

Sudanese survey IA J025
Red Sea muds - a potential metal source D M106
U.K., Sudan interests for Vam IA J256
Sudan contract for Hunting IA J412

SURINAM

Surinam bauxite investment H M015

SWEDEN

Swedish contract for Parsons IA J041
Ranger uranium contract IA J080
Major Ag find by Boliden H M015
LKAB seeks to mine U in Sweden H M131
Smelter plans shelved IA J177
More ore for Boliden MW J253
Polish port to handle Swedish ore IA J303
New Boliden Au find H M290
Finnish prompt for Viscaria start MW J332
Official go-ahead for Viscaria IA J410
Fresh Au/Ag find for Boliden H M367

TAIWAN

S.A. sales to Taiwan IA J059
Taiwan seeks South African uranium IA J081
Taiwan to buy Mn/Cr/Ni from S.A. H M133
Coal berth for Taipower IA J378

THAILAND

Plans for Thai smelter IA J057
Thai Zinc discussions IA J081
Moratorium on dredging IA J179
Thai miners threaten government concession IA J199
Tin miners withdraw IA J219
Thai tin IA J219
Tin smelter trial IA J239
3rd Sn smelter for Thailand H M209
Thai Zinc consortium undecided IA J279
Thai permit for Tongkah IA J359

TOGO

Togo phosphate output IA J340

TUNISIA

Equipment for Gafsa Mining IA J027
Tunisian phosphates IA J219
Tunisian phosphate loan H M369

TURKEY

Finnish involvement in Turkish ferrochrome and copper projects P M009
Soviet credit for Turkey IA J240
Seydisehir Al expansion H M290

UGANDA

Full circle for Falconbridge? IA J021
Falconbridge may undertake Kilembe feasibility studies P M125
Uganda seeks foreign aid IA J281
Foreign involvement sought H M371

U.K.

New colliery in doubt MW J005
South Crofty exploration IA J008
Cable Belt installation operational M J024
Mining equipment for Mexico IA J025
Cumbrian speculation MW J075
South Crofty mineral search H M015
Rock mechanics at Winsford rocksalt mine A M032
Historical note: the Davy lamp A M045
A changing fuel mix MW J093
Deeside Titanium ownership IA J097
U.K. sells platinum catalysts to Japan IA J116
A striking solution MW J129
Order for FSW IA J135
Platinum refinery for U.K. IA J154
Construction Equipment Exhibition '81, Birmingham, England A M177
Wheal Jane shaft deepening IA J196
Shaft sinking record IA J199
Grant for ECC IA J199
Lifting gear contract IA J240
MCB contract for Simonacco IA J240
Orders for Dunlop Belting IA J240
Billiton take main DTL stake H M209
The control of metal dispersal in reclaimed land A M249

Analyses of samples from Grassington Moor, Yorkshire L M259
New mine for Cornwall IA J256
NCB shelves Park Pit plans IA J256
U.K., Sudan interests for Van IA J256
Tin and wolfram at Hemerdon IA J279
Walking dragline for NCB IA J280
NCB buys Cable Belt IA J281
Contract for dragline buckets IA J319
Terex 33-09s for Simms IA J319
Training and experience E M282
£3.8M development for Wheal Jane H M290
South Crofty expansion IA J358
Cornish tin discovery IA J377
Planning permission for Redmoor IA J378
Cornish tin closure IA J379
British coal for Israel IA J394
Coke for Romania IA J394
SWCM acquisitions IA J394
Gold futures IA J411
Equipment marketing IA J412
Colliery cars for Nova Scotia IA J412
W/Sn project proved viable H M367
New mine for Cornwall? H M369
ECC agrees new rail link IA J463
New U.K. activity MW J496
New British coal shipping terminal M J501
Government funds for NCB IA J503
Power for coal handling plant IA J504
Cornish mine go-ahead H M443
S. Crofty expansion H M443
Trackless at High Moor A M531

UPPER VOLTA

Tambao manganese deposit, Upper Volta P M437

URUGUAY

Argentina/Uruguay U co-op H M371

U.S.A.

Kennecott-Mitsubishi copper deal MW J003
Montana coal tax IA J010
Uranium contract ruling IA J010
U.S. copper industry profile N J017
Solar heating for Coal Creek IA J032
Colorado oil shale project IA J035
Coal-gas project IA J035
Exxon plans Pinos Altos test MW J035
Crow Butte uranium IA J039
Fluor Corp. contract IA J040
VCR stoping at Homestake MW J051
Production at Mohawk silver mine IA J057
N. American metals output IA J057
Reagan's Secretaries of Interior and Energy MW J071
Nevada Quick Silver MW J073
Nevada gold MW J073
Green River mine approval IA J079
Opposition to zinc cent IA J081
Nevada Au find for Newmont H M017
Sohio buys U.S. coal mines H M017
New Mexico wilderness potential H M017
Significant find in Nebraska? MW J091
Bureau of Mines' bigger budget MW J093
Highlights from Conexpo '81, Houston, Texas M J095
New Cinch inquiry IA J097
Baltimore coal facility IA J097
Coleraine closure IA J098
Westinghouse-Gulf settlement IA J098
Sulphur recovery unit IA J099
Pinson on stream MW J107
Montana oil shales IA J113
Shale oil development IA J113
U.S. mining regulations IA J115
RTZ anti-trust settlement? IA J115
Phelps Dodge to modify smelters? MW J129
Pinos Altos development suspended IA J133
Gold bar dividends IA J135
The Reagan way N J145
Meridan results IA J154
Westmoreland Coal contract IA J155
Nickel-coated steel IA J156
Malaysian tin mission to U.S. IA J156
Kennecott unit forms Cu mine venture H M135
California Nickel answers the call... MW J167
Montana asks for more MW J167
Coal optimism MW J169
Antimony Corp. plans IA J177
Gold Quarry mill considered IA J177
White Pine refinery IA J177
Three Mile Island settlement IA J180
Uranium exploration jv IA J196
Silver property study IA J196
Offshore phosphate IA J196
Oil shale council IA J197
Phosphate mining partnership IA J198
Uranium: compromise, controversy, construction MW J212
Nevada gold find IA J217
Paraho shale programme IA J217
Wyoming mining suspension IA J218
Coal reserves deal IA J219
U.S. coal talks IA J219
Coal strike averted MW J231
Go-ahead for Quartz Hill moly mine IA J239
Indiana shale oil study IA J239
Fluoride emissions IA J239
U.S. coal via Quebec IA J240
Westmoreland takes blame IA J240
Energy efficiency report IA J241
Metal-bearing oil shales find H M215
Agrico phosphate move H M215
U.S. success for Gullick Dobson IA J257
Phelps Dodge: pollution settlement IA J258
U.S. removes ban on nickel alloys IA J258
U.S. coal miners reject offer IA J258
EPA counters Arco's claim MW J274
Shale oil contract IA J280
Westinghouse defendant dismissed IA J281
Newmont's Gold Quarry MW J305
Uranium partnership dissolved IA J301
Coal plan for Salem generators IA J301
Amax stops copper and tin powder output IA J301
Slurry line stake for Texas Eastern IA J303
Newmont view on takeovers MW J312
Haydee: $133 million for cleaner air MW J312
Coal strike persists MW J313
New mine for Consolidation Coal IA J317
Utah oil shale project IA J317
Power cut for Kaiser IA J318
Roof supports contract IA J319
Noranda approves New Madrid expansion H M291
Agrico/Cofax partnership H M291
New Cinch tests resumed IA J339
Alaska gold project IA J339
FMC Trona extraction IA J339
End of uranium litigation IA J341
U.S. coal strike IA J341
St. Joe talks continue IA J341
Steel mineral reserves MW J353
U.S. exports breach antitrust law? MW J353
Shaft control for Harrison Western IA J359
Mineral investment bill IA J359
Amoco's expanding mineral interests MW J371
Californian gold hope IA J377
Montana prospecting IA J377
Coal-oil mixture IA J378
Montana coal venture IA J378
Pilot plant for Cusac IA J378
Kaiser maintains Chalmette production IA J378
Amherst Coal for sale IA J379
Smelter proposals MW J389
Noranda studies in Alaska IA J392
Smoky Valley gold IA J392
Cities Service to drop mining? MW J407
Uranium mill closure IA J411
New Jersey uranium ban IA J411
Uranium tailings IA J411
Uranium for Western Nuclear IA J412
Go-ahead for Alaskan moly mine P M359
Cu mill wastes - possible Ti source H M373
U.S. - the five economies N J421
No joy at Orogrande MW J427
A view of the prospects MW J427
New company for ASEA and Harnischfeger IA J436
U.S. iron ore IA J437
Coal gasification IA J438
Lucky Friday strike ends IA J438
Coal strike: tentative settlement IA J438
Coal strike settled MW J453
Westmoreland Coal closure IA J463
Alligator Ridge on-stream IA J463
Full production to resume at Sunnyside IA J463
Arco-Asarco swap IA J463
U.S. and LOSC IA J463
Australia to challenge U.S. court IA J464
Electricity for Alcoa and Reynolds IA J464
More supply in sight MW J475
Power threat for northwest producers MW J476
Inspiration buys coal interests IA J481
Damages for Reserve Oil IA J482
Siskon-Hanna merger IA J482
Agreement for coal construction workers? IA J483
Callahan makes good progress MW J495
Stillwater platinum-palladium complex IA J502
Anaconda suspends Montana programme IA J502
Platinum at Goodnews Bay IA J503
U.S. coal delivery agreement IA J504
Bucket wheel excavators for North America IA J504
United Keno strike ends IA J505
Louisiana Au estimate raised H M439
Big Alaskan find for Noranda H M439

U.S.S.R.

Resource footings MW J006
Technical frontiers MW J006
Coal slurry pipeline IA J057
Beneficiation of copper ores in the U.S.S.R. A M049
Soviet tungsten/molybdenum mining D M104
Samin wins Kivcet license IA J098
Geophysical instrumentation IA J116
Kazakhstan coal plant IA J133
Controlling atmospheric dust in Soviet open-pit blasting D M186
USSR - new plan, old leaders N J189
USSR: oil from coal IA J197
Soviet credit for Turkey IA J240
The Lisakovsky mining complex D M270
U.S.S.R.: potash find IA J300
Talks on Soviet copper deposit IA J317
Driving a 5½km ramp at Gaysky copper mine (S. Urals) D M339
Kaliningrad amber IA J339
Soviet training for Indian miners IA J361
Manganese in Ukraine IA J377
Soviet exports to Poland IA J394
KCI plant for U.S.S.R. M J409
Yakut diamond mine IA J410
Recent Soviet hydraulic excavators for open-cast mining D M418
Use of vibrational ore feeders D M418
U.S.S.R. coal deposit IA J436
U.S.S.R. cuts coal sales to Japan IA J503
Mining Siberian polymetallic ores D M564

VENEZUELA

Interalumina refinery behind schedule IA J339
Venalum potline damage IA J437
Venalum renegotiates contracts IA J464
Diversification in Venezuela N J473

VIETNAM

Vietnamese bauxite IA J217

YUGOSLAVIA

Yugoslavian oil shale IA J025
Yugoslavia: production targets IA J026
Czech-Yugoslav contract IA J027
New quartz mine for Yugoslavia H M015
Yugoslavian coal for 1981 H M131
Yugoslavia orders from Denver IA J179
Yugoslavia slates iron ore imports IA J179
Breza coal mine expansion IA J218
Yugoslavian coal find H M209
Bor capacity to double IA J257
Yugoslavian magnetite IA J300
New Yugoslav Pb/Zn mine H M290
Bor Cu closes H M290
Wet drum magnetic separators for Yugoslavia M J336
Yugoslavian aluminium IA J358
Uranium in Macedonia IA J377
Mt. Kopaonik Pb/Zn mine H M367
Magnetite find in Yugoslavia H M367
New Pb/Zn mine for Yugoslavia H M369
Breza mine expansion H M369
Iron output at Varesa IA J481
New lignite mine for Yugoslavia H M443
U find in Macedonia H M443

ZAIRE

Zaire: cassiterite production IA J079
Zaire to begin cassiterite production H M211
Zaire diamond sales IA J389
Zaire breaks 14-year link with CSO MW J425
Zaire/Zambia seek E.E.C. aid H M441

ZAMBIA

Conveyor link for Baluba MW J005
IMF prompts more austerity MW J035
Confrontation in southern Africa MW J051
RCM ore conveyor belt plan H M133
Zambia seeks exploration fund IA J196
Zambia coal plant tender IA J198
Chambishi Mine, Zambia A M293
Zambian uranium IA J377
Zambia: copper rationalisation MW J388
Zambian mine news IA J393
Loan for Zambian Cu mine H M369
Zambian phosphate plans IA J461
Zaire/Zambia seek E.E.C. aid H M441
RCM/NCCM merger H M441

ZIMBABWE

Overseas funds for Wankie expansion MW J147
Zimbabwe chrome ore expansion IA J218
Bindura output suspended IA J318
Chrome plans abandoned IA J318
Ropeway for Zimbabwe mine IA J319
Cr/FeCr expansion in Zimbabwe H M290
Zimbabwe asbestos mine closures IA J340
Labour returns to Zimbabwe IA J464
Government confirms marketing plans MW J497

Methods and Machines

BLASTHOLE DRILLING

Computerised drilling pattern design saves costs M J236

BLASTING & EXPLOSIVES

New blasting system introduced M J174
Initiation of explosives A M396
New articulated truck for ANFO M J479

COAL TECHNOLOGY

Effective deep cone thickener M J056
Dewatering of fines M J078
Historical note: the Davy lamp A M045
Methane emission from stacked coal M M089
Thin seam coal mining from abandoned high walls M M260
Coal handling at Selby, England M M261
Joint British-Swedish mining equipment venture M J299
Mining tool locking system M J316
Removing clay in coal waste re-processing M M326
Coal preparation plant for China M J336
Export orders boost for U.K. longwall equipment M M410
Impressive performance from grouting equipment M J434
Machine for loading/cleaning coal spillage M J500
Duvha, South Africa A M444
Trackless at High Moor A M531

COMMINUTION

High production crusher M J056
Effective hydraulic rock breaker M M090
Low profile, portable crusher M M097
New grinding machines M J131
Improving crusher liner life M J277
New boom-mounted hammer M J457
Handling and crushing

equipment for Australia M M355

COMPUTERS

Automated metals analysis with new atomic adsorption spectrophotometers M J077
Computer evaluation of mining projects M J111
Digitised Landsat data M M182
Remote sensing the literature! MW J233
PROMIS - a mine planning aid A M390
MinSys: an international mining information system M M553

CONVEYORS

Cable Belt installation operational M J024
Equipment for expanding Greek lignite industry M J195
Redesigned belt splicer M J315
Canada's largest conveying system M J356
£3.5 million Zambian contract M J357
Export success for Continental conveyors IA J359

DREDGING

New circular jig for dredges M M090
Underwater bucket wheel M J375
Sierra Rutile A M458

DRILLING

Instrument for inclined benching holes M J024
Exploration drilling equipment A M157
Construction Equipment Exhibition '81, Birmingham, England A M177
U.S. tests on diamond-tipped bits M J236
Lightweight deep geochemical overburden sampling unit M J255
New design of flushing hole in drill shank adaptors M J315
Small hydraulic drill rigs for underground mines M M323
New wireline core barrel M J409
Exploration with versatile rigs M M551

EDUCATION & TRAINING

Connections E M119
Explosives training course IA J180
Training and experience E M282
Perseverance E M431

ENERGY & POWER SUPPLIES

No let-up on energy N J401
Geothermal energy in Iceland A M543

ENVIRONMENTAL CONTROL

Radon daughter detector M J056
Controlling atmospheric dust in Soviet open-pit blasting D M186
Alcoa and Reynolds sued IA J180
Three Mile Island settlement IA J180
Fluoride emissions IA J230
Mining townships E M199
The control of metal dispersal in reclaimed land A M249
EPA counters Arco's claim MW J274
PGM exhaust catalysts for Japan M M325
Koongarra mining in question IA J358
Nishga v Amax IA J379
Alcoa in environmental dispute IA J379
Amax mine spillage IA J411
Uranium tailings IA J411
Kitsault warning IA J463
Belvoir under scrutiny IA J503

EXCAVATORS & LOADERS

Studies improve dragline performance M M095
High lift loader for big trucks M M185
Highlights from Conexpo '81, Houston, Texas M J095
Electric drive hydraulic excavators M J112
Volvo launches 4600 wheeled-loader M J152
U.K. mining shovels for India M J153
Construction Equipment Exhibition '81, Birmingham, England A M177
World's largest bucket wheel reclaimer ordered M J237
Bucket wheel units for tar sand mining A M307
New bulldozer and wheel loader M M325
Giant wheel loader for tar sands M M411
New 4.5yd³ hydraulic excavator M M413
Recent Soviet hydraulic excavators for open-cast mining D M418
Narrow vein LHD M J432
New U.S. hydraulic shovel M J456
Giant walking dragline in Jordan M J500

EXHIBITIONS & MEETINGS

Geological data bases IA J010
AMF workshop courses IA J010
Stratabound sulphides IA J010
Caving and sublevel stoping IA J010
Practical introduction to geostatistics IA J028
CoalTrans '81 IA J028
Asian mining '81 M J038
Blasting seminar IA J060
Opportunities in mining IA J060
Mineral processing IA J060
Highlights from Conexpo '81, Houston, Texas M J095
Sulphur seminar IA J116
30th geomechanics colloquy IA J116
AIME annual meeting IA J116
Alaska resource conference IA J116
IKM 82 IA J116
Geostatistical reserve estimation IA J116
Forward to coal IA J116
Extraction Metallurgy '81 IA J135
Cargo and materials handling IA J135
Exploring new frontiers IA J135
Strategic metals IA J156
Advances in mining geology IA J156
Extractive geology '81 IA J156
Construction Equipment Exhibition '81, Birmingham, England A M177
Uranium symposium IA J180
XI world mining congress IA J180
Geostatistics and decisions IA J180
Two-day gold conference in London IA J241
Coal science IA J241
Metals availability IA J241
New surface mining event scheduled for Cologne, FRG, 1983 M J255
XIV International Mineral Processing Congress, Toronto M J299
ABMEC seminar IA J303
Arab mineral resources IA J303
ILAFA energy congress IA J303
Precious metals IA J320
Oceanology International '82 IA J320
World conference on magnesium IA J320
Sulphur-81 IA J320
Mining history IA J320
World tin conference IA J320
International Mining exhibition and congress, Dusseldorf A M315
Forward to coal IA J341
International Mining IA J341
Ore deposits workshop IA J341
Arab energy alternatives MW J351
Bergbau 81 - Dusseldorf, F.R.G. M J432
Success assured at "Bergbau" MW J454
Australian Mining developments IA J465
XI World mining congress IA J465
Mine surveying IA J465
Radiation hazards IA J465
Blasting seminar IA J505
Introduction to geostatistics IA J505
How mining manufacturers boost their exports A M469
International Mining Exhibition - what's on show A M490

EXPLORATION

New portable drillhole logger M J078
Vertical magnetic gradiometer M J112
Exploration drilling equipment A M157
Digitised Landsat data M M182
Advanced instrument for identifying minerals M J174
Microprocessor system for U_3O_8 M J176
U.N. and mineral exploration N J210
Exploration drill rigs from Australia M M263
Lightweight deep geochemical overburden sampling unit M J255
Tape recording seismograph M J315
Portable magnetometer M J337
Microprocessor receiver M M413
New digital seismic measuring unit M J479
Exploration with versatile rigs M M551

FLOTATION METHODS

Cuajone moly circuit starts using nitrogen M J195

GEOLOGY

Geothermal energy in Iceland A M543

HEALTH & WELFARE

Personal monitoring device for radon/thoron daughters M J152
Heat tolerance testing centre M J315
Continuous working level monitor M J357
Efficient, clean underground toilet units M J391

INSTRUMENTATION

Automated metals analysis with new atomic adsorption spectrophotometers M J077
Massflow, density and flow measurement M J375

LABOUR

NCCM to cut labour force IA J027
Benguet strike IA J027
Geevor plan rejected IA J060
Further massive layoffs IA J060
Strike affects coal loaders IA J060
Asarco reaches agreement IA J060
Peru - general strike IA J060
Asbestos Corp. recalls workers IA J081
Iron ore freighter lost IA J081
A striking solution MW J129
Jamaican strike averted IA J134
Australian phosphate and sulphur imports IA J134
Miners killed in rockfall IA J156
Centromin strike IA J156
Kennecott Corp. lay offs IA J156
Industrial problems for MIM IA J180
Centromin strike called off IA J180
S.A. labour agreement IA J180
Thai miners threaten government concession IA J199
Mount Newman strike ends IA J199
Return to work at Broken Hill IA J219
U.S. coal talks IA J219
Cuajone strike IA J219
Inco liability IA J219
Coal strike averted MW J231
Seamen refuse yellowcake handling IA J240
Cuajone back to normal IA J240
Westmoreland takes blame IA J240
Mining townships E M199
U.S. coal miners reject offer IA J258
Cominco gold miners strike IA J303
Getty to lay off miners IA J303
Coal strike persists MW J313
El Teniente strike IA J320
Training and experience E M282
U.S. coal strike IA J341
Peruvian miners hold off strike IA J341
Strike talks at El Teniente IA J341
St. Joe talks continue IA J341
Falconbridge strike IA J361
Cominco strike averted IA J361
Unions against uranium IA J361
Agreement on coal loader IA J361
Pay talks for S.A. whites IA J361
Wage rise for Mexicans IA J361
Soviet training for Indian miners IA J361
Environment Board for potash IA J379
Hecla strike continues IA J379
S.A. labour settlements IA J379
Chile copper talks IA J379
Canada Tungsten strike ends IA J394
Comalco strike extension IA J394
Comalco strikers return to work IA J412
El Teniente proposals rejected IA J412
Amax strike IA J438
Lucky Friday strike ends IA J438
Disputes at Hamersley Holdings IA J438
Cominco contract talks IA J438
Coal strike: tentative settlement IA J438
Coal strike settled MW J453
Labour returns to Zimbabwe IA J464
Dome Mines strike continues IA J464
Pine Point contract IA J464
Rise for S.A. mine officials IA J483
Newcastle coal strikes IA J483
Agreement for coal construction workers? IA J483
Labour the key MW J496
Strike at Mexican mines IA J505
Chuquicamata agreement IA J505
United Keno strike ends IA J505
Perseverance E M431

MECHANICAL HANDLING

Coal handling at Selby, England M M261
Complete handling plant for major Australian project M J255
Mobile breaker for overburden M J276
U.K.-Hungarian co-operation M J337
Flame-proof feeders for Spain M J376
Quot homines... E M355

MINE HOISTING

Measuring loads on large-diameter wire ropes M J152

MINERAL PROCESSING

Vibrating screen M J007
Tramp metal detectors M J024
Beneficiation of copper ores in the U.S.S.R. A M049
Laboratory-scale pulp and slurry handling equipment M J131
Construction Equipment Exhibition '81, Birmingham, England A M177
Laboratory mineral jig and selective mineral jig M J237
XIV International Mineral Processing Congress, Toronto M J299
Wet drum magnetic separators for Yugoslavia M J336
Work on selective flocculation M J376
Further improvements to spiral concentrator M J391
New mixer offers energy savings M J409
KCI plant for U.S.S.R. M J409
Alumina ceramic wear resistant material M J456
New drum filter M J500
Laboratory simulation of shaking table performance A M489

OFFSHORE & DEEP SEA MINING

Moroccan mineral rights zone IA J010
Australian nodules IA J025
Red Sea muds - a potential metal source D M106
Japan proposes legislation MW J109
Ocean Mining - feasible but risky D M186
Sea Law scuppered? N J209
Indian seabed mining IA J461
U.S. and LOSC IA J463

OPENCAST MINING

£11 million contract for U.K. draglines M J007
The Highmont project A M018
Mining activity in the Western world A M059
Equipment for expanding Greek lignite industry M J195
Forecasting demand for heavy equipment M J216
Groote Eylandt A M216
New surface mining event scheduled for Cologne, FRG, 1983 M J255
Plans for mining iron ore in Libya A M320
Jordan Mines phosphate A M378
Duvha, South Africa A M444
Caraiba Metais A M483

PIPELINES

Slurry line stake for Texas Eastern IA J303
Abrasion-resistant ceramic lined pipe M M323
Swedish-Australian co-operation M J434

PNEUMATICS & HYDRAULICS

Large hydraulic thickeners M J007
Effective hydraulic rock breaker M M090
Air-hydraulic impact hammers M J174

POLITICO-ECONOMIC

Argentina's mining promise M J001
Inco: Mining Act exemption IA J026
Poland's tightrope N J033
Confrontations in southern Africa MW J051
Five-year plan MW J053
Colombia: illegal mining IA J059
South Africa - a challenging year N J070
Reagan's Secretaries of Interior and Energy MW J071
Mining activity in the Western world A M059
Australian mining in good heart N J089
Bureau of Mines' bigger budget MW J093
Peruvian promise M J105
Argentina opens mining registry IA J115
Government takes Ok Tedi stake IA J115
U.S. mining regulations IA J115
The Reagan way M J145
Government back mining activity MW J149
Commodity fund timetable IA J156

China's volte face N J165
Government regeneration plan draws sharp response MW J170
Peru: finance for smaller mines IA J178
USSR - new plan, old leaders N J189
Peru legislates MW J191
Credit for Mexican metals IA J199
Sea Law scuppered? N J209
U.N. and mineral exploration N J210
Colombian mining development plan IA J217
Argentina prospecting loans IA J218
Grants for Ontario mineral development IA J219
Chile: cautious confidence N J229
Ontario: energy and mineral plans MW J234
Iron ore; no upturn yet N J250
Australian superphosphate subsidy for scrutiny IA J281
Uganda seeks foreign aid IA J281
Zinc: a doubtful star N J293
Spain revisited N J309
Compensation for Banabans IA J320
The third millennium N J329
Mineral investment bill IA J359
Colombia: boost to mining IA J359
Zia orders enquiry IA J361
Eyes on Mexico N J369
Gold: review and forum N J385
Greek mining concessions IA J392
No let-up on energy N J401
Société Générale - mining facets MW J405
Price predictions MW J407
Armico A M404
U.S. - the five economies N J421
Tin: background for Geneva N J449
Diversification in Venezuela N J473
Poland - precarious summer N J493
Plans and forecasts MW J495
Government confirms marketing plans MW J497

POLLUTION

The control of metal dispersal in reclaimed land A M249
EPA counters Arco's claim MW J274

PROSPECTING

Exploration drilling equipment A M157
Instrument determines electrical properties of rock N J175

PUBLICATIONS

Geological nomenclature IA J027
Direct reduction options IA J028
American geological publications IA J028
Supporting of mine workings IA J028
Shropshire tragedies IA J080
Financial Times mining year book IA J080
New mineral names IA J080
Topics in non-ferrous extractive metallurgy R M087
Flotation agents and processes - technology and applications R M087
Uranium in the Pine Creek geosyncline R M087
Magnesium statistics IA J099
Canadian Geological Survey IA J099
Coal in Wyoming IA J099
Cadmium in the E.E.C. IA J099
Glossary of geology R M181
Wolff's guide to the London Metal Exchange R M181
Mineral and energy resources of the USSR R M181
Force limits to manual work R M181
The manganese mines of North Wales R M259
Uranium evaluation and mining techniques R M259
Arab Mining Journal IA J320
Way to Coal IA J320
Complex sulphide ores R M331
Coal information sources and data bases R M331
Introduction to rock mechanics R M333
Uranium: a strategic source of energy R M408
Blasting operations R M409
Mining in Cornwall: 1850-1960 R M409
Metals recovery IA J436
Minerals/metals review IA J438
Tin in tinplate IA J438
Australian mining IA J465
EEC geological information IA J465
Report on zirconium IA J465
The geology of the Western Cordillera in Peru R M549
The World Tin Industry R M549
MinSys: an international mining information system M M553

PUMPING & DRAINAGE

Effective Finnish range for slurry handling M J356

RESEARCH

Energy technology IA J027
Lasers at Western Deeps IA J027
Connections E M119
Remote sensing the literature! MW J233
Energy efficiency report IA J241
Ti from tailings IA J241
Perseverance E M431
Laboratory simulation of shaking table performance A M489
MinSys: an international mining information system M M553

RUBBER & PLASTICS

Polyurethane-lined hose handles abrasive materials M J457

SAFETY

NSW safety measures IA J059
Historical note: the Davy lamp A M045
Electronic canary monitors atmosphere M J111
Malaysian mining suspension IA J280

SAMPLING

New generation of spinning rifflers M J236

SCREENING

New rubber screen cloth M J479

STRATA CONTROL

Aid to preventing roof falls in mines M J038
Mine stability project completed M J077
Rock mechanics at Winsford rocksalt mine A M032
Benefits from split-set roof stabilisers M M263
U.K. company gains major roof support orders M M265
Breakthrough in roofbolting M J276
Strata control in Polish copper mines D M564

TAXATION & TARIFFS

Call for special resource tax MW J311
Tax shield for Ergo MW J475
Mining royalties in Northern Territory IA J503

TRADE & STATISTICS

Pressures on prices MW J005
Bullish view on copper IA J009
Yugoslavia: production targets IA J026
Tungsten agreement sought IA J039
Lead outlook IA J040
Tougher times for molybdenum N J049
Hard road ahead MW J053
N. American metals output IA J057
B.C. mineral expenditure IA J081
Mining activity in the Western world A M059
Fall in world tin production IA J098
By-product props MW J107
Copper conundrums N J125
World Al output IA J155
Commodity fund timetable IA J156
World lead and zinc output IA J218
1980 outputs, exports MW J373
Bodies in question MW J397
Horoscope for lead N J349
Mid-1980s surplus forecast MW J372
Metal price predictions S J374
Malaysian mine production IA J378
Gold: review and forum N J385
New outlets sought MW J388
Price predictions MW J407
Armico A M404
Diversification in Venezuela N J473
More supply in sight MW J475
How mining manufacturers boost their exports A M469
International Mining Exhibition 11-17 June - what's on show A M490

TRANSPORT - GENERAL

New 2-axle articulated truck M J077
Construction Equipment Exhibition '81, Birmingham, England A M177
First of a new generation of trucks M J216
Load, haul and dump vehicles moving into new markets A M226
Freight rates renegotiated IA J257
New 120-ton diesel mechanical mining truck M J375
Quot homines... E M355
Vehicle for travel over trackless terrain M J433
New railway for coal IA J463
ECC agrees new rail link IA J463
Amax coal export facility IA J463
New articulated truck for ANFO M J479
New British coal shipping terminal M J501

TRANSPORT - UNDERGROUND

Load, haul and dump vehicles moving into new markets A M226
Novel U.K. - developed underground manriding system M J336
Narrow vein LHD M J432
Trackless at High Moor A M531

TUNNELLING

Improvements in mechanised driving of headings D M105
New tunnel borer M J195
Use of undercharged blastholes in tunnelling D M339

UNDERGROUND MINING

Mining activity in the Western world A M059
Hydraulic motors for coal M J096
Australian coal records M J131
Boring machine for W. German salt mine M J153
PCS Mining: Lanigan Division A M136
New low-profile rear dump in South Africa M J175
Polish copper A M240
Chambishi mine, Zambia A M293
Experiments with timber handling system M J391
Export orders boost for U.K. longwall equipment M M410
Caraiba Metais A M493

VENTILATION & DUST CONTROL

High efficiency heat exchanger M J336

Companies and Other Public Bodies

A

Aberfoyle MF J061
MF J244 MF J322 MF J323
Adams Resources and Energy IA J155
African Explosives & Chemical Industries A M447
Afton Mines MF J102
Agnico-Eagle MF J484
Alcan Aluminium MF J322
MF J468
Alcoa IA J057
IA J180 MF J381 IA J393
IA J464
Alcoa of Australia IA J379
Alexander Shand MF J163
Allied Eneabba Ltd. IA J097
MF J224
Allis-Chalmers A M025
A M139 A M219 A M383
Alpha NUCLEAR Co. M J152
M J176 IA J394
Aluminium Bahrain IA J026
Amalgamated Tin Mines of Nigeria MF J121
Amax MW J108
MF J118 MF J200 IA J258
MF J282 IA J301 MF J335
IA J411 IA J436 IA J438
IA J463 MF J467
American Mining Congress A M469
American Smelting and Refining (Asarco) IA J060
MF J121 MF J245
Amoco IA J009
P M201 MW J371 IA J480
Anaconda IA J097
IA J098 IA J393 IA J464
IA J502
Andaluza de Piritas SA MW J272
Anderson Strathclyde M M410
Anglo American Coal Corp. MF J186
ME J221 MF J222 MF J398
Anglo American Corp. MW J019
MF J082 P M127 IA J256
MF J259 ME J262 MF J346
A M390 ME J440 MF J445
Anglo American Gold Investment Co. ME J384
MF J387
Anglovaal group MF J064
MF J305
Antimony Corp. IA J177
ARA A M236
Ardal og Sundal Verk MF J084
Armco Bronne P M283
Armico (The Arab Mining Co.) A M404
Asbestos Corp. IA J091
IA J113 IA J219 MF J486
ASEA IA J080
A M241 M J434 IA J436
Associated Minerals MF J120
Association of British Mining Equipment Companies A M469
W. S. Atkins M M089
M M261
Atlantic Richfield MF J065
IA J392 IA J463 MF J506
Atlas Copco M J024
A M148 A M161 M J175
M J399 A M397 M M323
M J479
Atlas Powder Co. A M403
Aulmann & Beckechulte Maschinenfabrik M J276
Austin Powder Co. A M403
Australian Consolidated Minerals IA J057
MF J121
Australian Mineral Industries Research Association M J077
Aveling Barford A M147
Ayer Hitam Tin MF J308

B

Babcock Hydraulic Handling M J337
Babcock-Moxey Australia Pty. IA J303
Barlow Rand MF J013
Barringer Research M J174
Battelle Memorial Institute M J316
M J376
Bechtel Canada M J356
Becorit A M533
Beiler Equipment Co. M J479
Benguet Corporation IA J019
IA J059 MF J342
Beralt Tin and Wolfram MF J353
MF J468
Bethlehem Steel MW J353
A M458
Bharat Gold Mines P M123
Bindura Nickel MF J381
Black Mountain Mineral Dev. IA J257
Blackwood Hodge IA J319
Boliden IA J196
MW J253
Botswana RST P M011
Bougainville Copper MF J066
MF J261 IA J280
Boxmag Rapid M J336
Boyles A M297
M J434
Brenda Mines MF J308
Brisco MF J121
MF J331
British Brown-Boveri IA J504
British Columbia Resources Investment Corp. MF J085
British Gypsum IA J135
IA J412

British Jeffrey Diamond A M383
British Petroleum MF J347
British Ropeway Engineering IA J319
Broken Hill Proprietary MF J102
MW J138
Brunswick Mining & Smelting IA J009
Buchau-Wolf IA J504
Bucyrus-Erie P M285
A M295 M M413 A M445
A M483
Bula Mines IA J383
Bunker Hill Co. IA J359
IA J411

C

Cable Belt MW J005
M J024 IA J240 IA J281
M J357 IA J437
California Nickel Corp. MW J187
Callahan Mining MF J246
MW J495
Camflo Mines IA J154
Campbell Red Lake P M201
Campbell Resources MF J224
Canada Tungsten MF J032
IA J394 MF J396
Caraiba Metais S.A. A M483
Caterpillar A M021
M M295 A M148 A M219
P M283 A M295 M M325
A M380 A M447 A M461
Central Pacific Minerals P M127
Centromin MW J169
IA J180 IA J219
Cerro Colorado P M433
Chamber of Mines of South Africa ME J508
Charter Consolidated MF J163
MF J484 MF J510
CIPEC IA J196
Cities Service IA J197
MW J407
Cleveland-Cliffs Iron Co. MF J185
MF J380
Cluff Oil MF J066
Coal Systems of Texas M M280
Comalco IA J039
M J089 IA J099 MF J141
IA J339 IA J379 IA J394
IA J412 P M361
Cominco P M007
IA J178 IA J303 IA J361
MF J362 IA J410 IA J412
IA J464
Commercial Plastics Special Products M J276
Commodity Research Unit S J011
N J125
Commonwealth Scientific and Industrial Research Organization (CSIRO) M J038
M J077
Compagnie Generale des Matieres Nucleaires (Cogema) A M147
Compania de Acero del Pacifico MF J488
Cia Minera El Indio IA J154
Conoco MF J510
Conrad-Stork A M157
Cons. African Selection Trust IA J503
Consolidated Gold Fields MF J185
MF J346 MF J446
Consolidated Gold Fields of Australia MF J193
Consolidated Placer Dredging Inc. M M095
Consolidated Technologies Corp. M J457
Contech Products M J174
Copperfields Mining MF J138
Copper Range MW J192
Corporacion Nacional del Cobre de Chile (Codelco) MF J325
A M304 IA J411 IA J504
Contain Mining A M379
CRA Exploration IA J008
CRA Ltd. MF J136
IA J179 P M205 MF J322
IA J379 IA J394 IA J435
Craelius M J409
Craigmont Mines IA J059
MF J100 IA J133
MF J012
CSR Ltd. IA J057 IA J196 P M201
IA J410 MF J466
MF J014
Cyprus Anvil MF J363
MF J161 IA J178 MF J467

D

A.K. Dababneh A M379
Dallas Instruments M J315
Day Mines MF J186
MF J247 MF J307
De Beers MF J045
IA J155 IA J280 ME J343
MF J345 IA J411 P M359
Deister A M461
Delfilt Ltd. IA J179
Delta Engineers A M041
Denison Mines MF J082
MF J383
Denison A M139
IA J179
Derek Crouch Ltd. MF J488
Diamond Core Drill Manufacturers Association A M171
Direct Reduction Corp. IA J219
DJB Engineering M J077
Dodge A M461
Dome Mines IA J177
P M201 MF J397 MF J446
IA J464
Don Valley A M383
Dorr-Oliver A M461
D'Or Val Mines IA J079
Dosco A M535
Dowty Meco A M297
Dresser A M533
Duke and Ockenden A M157
Dunlop Belting IA J240
Du Pont of Canada P M363
A M391 IA J505
Duval Corporation MF J266
Dynamit Nobel AG A M391

E

Eagle Crusher M J056
M M097
Eagle-Picher IA J219
East Daggafontein IA J041
East. Rand Prop. Mines IA J411
Echo Bay Mines MF J119
EDA Instruments M J112
M J357
EG&G geoMetrics M J337
Elmac A M151
A M227 A M297 A M535
Elandsrand Gold Mining MW J371
Electrical Supply Commission (Escom) A M453
Elmac Corp. A M237
Eluma SA Industria e Comercio MF J045
Empresas Brumadinho MF J443
Endeavour Resources IA J041
P M123 IA J240
Engelhard Minerals and Chemicals MF J307
English China Clays MF J118
IA J199
ENI MF J042
IA J196
Ensign Bickford A M391
Envirotech M J007
Equipement Minier A M151
A M227 M J432
Ergo MW J475
Escher Wyss A M139
Esso Resources Canada IA J080
Euclid M J375
A M380
Eurohose Ltd. M J457
Explosives and Chemical Products A M403
Exxon Minerals MW J035
IA J133 IA J280 IA J303
IA J379
EZ Industries MF J102
IA J113 MF J206 MW J429

F

Fachgemeinschaft Bergwerks-maschinen A M471
Faco-Allis Chalmers A M484
Fagersta M J315
Falconbridge P M123
MF J186 MF J286 P M283
IA J361 IA J410
Fiberglass Resources Corp. M M323
Finanmiera Group A M471
Fletcher Co. P M361
Fletcher Sutcliffe Wild IA J135
Fluor Corp. IA J040
M M095 MF J139 MF J267
MF J383 MF J399 IA J438
Flygt M J409
FMC Corp. IA J079
IA J339
Foote Minerals MF J445
Forsco M M551
Ford, Bacon and Davis IA J099
Foster-Miller Associates M J336
Frantir A M391
Frederick Parker Ltd. M M336
Freeport-McMoRan Inc. MF J439
Freeport Minerals MF J100
F. W. Payne & Son (Bickley) A M459

G

Gardner Denver A M021
A M219 A M445
GEC-Elliott A M385
GEC Mechanical Handling IA J041
Geevor Tin MW J013
IA J060 MF J085
Gencor Group MF J044
MF J085 P M125 ME J204
MF J205 MF J261 ME J264
MF J323 P M283 IA J358
General Services Administration S J037
Geosystems M M553
Getty Oil IA J040
IA J303 IA J482 MF J506
GHH Sterkrade A M137
Gibraltar Mines MF J085
MF J324
Gold Fields group MF J043
ME J202 MF J205
Gold Fields of South Africa MF J102
MF J283 P M435
Goodman A M137
A M297
Gopeng Consolidated MF J159
ME J201
Granges MF J507
Granges Aluminium IA J177
Groote Kylandt Mining Co. A M216
Grootvlei Prop. Mines ME J182
Gulf + Western MF J184
Gulf Oil MF J083
Gulf Resources & Chemical Corp. MF J288
MF J304
Gullick Dobson M J131
M M265 IA J257 IA J319
A M535
Gyro Mining Transport M J336

H

AB Hägglund & Söner M J433
Hall & Pickles Ltd. M J316
Hamersley Holdings MF J085
MF J101 MF J304
Hamersley Iron Pty. IA J155
Hampton Areas Australia MF J045
Hampton Gold Mining Areas MF J247
MF J366 MF J446
Hanna Mining IA J040
MF J118 IA J482
Harrison Western Corp. IA J359
Hazemag A M383
Hecla Mining MF J117
MF J247 MF J288 IA J379
Hercules A M403
Highveld Steel and Vanadium MF J181
Hino A M380
Hitachi A M380
Hollinger Argus MF J415
Holman A M297
A M380
Homestake MW J051
MF J136 MW J212
Horwood Bagshaw A M227
Hudson Bay Mining & Smelting MF J305
MF J416
Hunting Geology and Geophysics N M182
IA J317 IA J412

I

I.C.I. Australia P M123
Idemitsu Kosan IA J436
Idris Hydraulic Tin MF J102
IMETAL MF J507
Impala Platinum ME J137
MF J138
Inco IA J026
MW J036 MW J091 MF J101
MF J181 IA J219 MF J325
MW J353 IA J463
Ingersoll Rand A M151
A M219 M M263 A M380
A M445
Inspiration Consolidated Copper IA J099
Institution of Mining and Metallurgy N J329
International Harvester A M147
P M283 M M411
International Monetary Fund MW J035
International Tin Agreement N J069
M J249 N J449
Ireco A M403
Iron and Steel Industrial Corp. (South Africa) MF J029
Iron Ore Co. of Canada IA J059

J

Jacobs Engineering Group IA J340
James Fitzpatrick Industries M J391
Jarvis-Clark A M227
P MMH1 A M484
Johannesburg Consolidated Investment group MF J064
MF J305 M J391
Johnson Matthey Chemicals M M325
Jordan Fertiliser Industry Co. A M389
Jordan Phosphate Mines Co. A M376
Joy Process Equipment M J056
M J131 M J237 M J500
A M535

K

Kaiser Aluminum MF J032
MF J063 MF J226
Kaiser Engineers A M483
Kamunting Tin Dredging MF J015
Kawasaki Heavy Industries IA J179
Kay-Ray Inc. M J375
Kellogg Kaiser Engineers IA J115
Kemmerer Coal Co. MF J247
Kennecott MW J003
IA J022 MF J030 MF J101
MF J120 IA J156 MF J220
MF J305 MF J383
MF J225
Kerr Addison M J336
KHD Humboldt Wedag A M137
Kilborn Engineering P M363
IA J021
Kilembe Mines M J216
Kockum Landsverk
Koehring International Marketing M J456
Kone Oy M M090
Kraus-Maffei A M385
Krebs A M385
Krupp Industrie- und Stahlbau IA J379
Krupp Polysius IA J504
Kuwait Petroleum Corp. MF J085

L

Lacana Mining Corp. MF J285
La Luz Mines IA J041
Lectra-Haul A M021
Legmet A M241
Lepanto Cons. Mining MF J207
Liebherr A M148
Locker Industries M J007
M J376
Lornex MF J185
IA J340
Lubin Copper Mining A M240
Lurgi M J409

M

Mark A M380
Mackay & Schnellmann A M376
Malayan Tin Dredging MF J102
MF J308
Malaysian Mining Corp. MF J102
MAN-GHH A M227
Manitowoc P M285
A M461
Mannesmann Demag M J195
IA J280
Marcopper Mining Co. MF J207
Mareeba Mining IA J377
Marievale Consolidated Mines ME J182
MF J184
Marlow Drilling Services M J255
Marubeni Corp. IA J504
Mary Kathleen Uranium MF J061
Maschinenbau Ulm (MBU) A M535
Matthew Hall Ortech IA J041
McPhar Geophysics IA J116
MDA Scientific M J056
Meekatharra Minerals IA J113
Meridan Resources MF J031
Messina (Tvl) Development MF J043
MF J468
Metallgesellschaft AG MF J085
MF J102
Metallurgie Hoboken-Overpelt MF J325
Microscal N J236
Midlectron Ltd. M J111
Midrex Corp. IA J257
IA J302
MIM Holdings IA J113
Mindev M J434
Minefields Exploration P M009
Minerals and Resources Corporation (Minorco) MF J182
MF J267 MF J366 MF J446
MF J490
Mitchell Cotts Mining Equipment M J456
IA J504
Mitsubishi MW J003
IA J026 IA J358
Mitsubishi Oil IA J437
Mitsui IA J040
Molycorp. MF J283
IA J411
Montabert A M148
Morrison-Knudsen IA J505
Mount Isa Mines IA J180
Mt. Lyell Mining and Railway Co. MF J101
Murphyores IA J027

N

National Coal Board M J056
N J078 N M089 IA J240
N M261 IA J256 IA J281
IA J503 A M531
National Gypsum Co. MF J206
National Mine Service Co. M J153
A M137 IA J503
National Steel Corp. IA J156
Nchanga Consolidated Copper IA J027
NEI International Combustion IA J041
New Broken Hill Cons. IA J197
New Cinch Uranium Ltd. IA J097
IA J339
Newell Dunford A M385
Newmont Holdings MF J045
Newmont Mining MF J083
P M123 MW J312
New Zealand Steel IA J379
Nitro Nobel AB A M391
IA J505
Nobel's Explosives Co. M J174
A M391
Noranda IA J154
MF J157 IA J279 MF J286
MF J381 IA J392
Nordberg A M484
Normet A M151
Northgate Exploration MF J158
IA J502 MF J507
North Kalgurli IA J008
MF J031
Northwest P M285

O

Oakbridge MF J308
Occidental Petroleum IA J196
Ok Tedi Mining Ltd. MW J167
O'okiep Copper MF J162
MW J231
Opec IA J021
N J401
Orenstein & Koppel AG M J112
N J237 M J375 A M380
Ore Sorters (Canada) Ltd. IA J257
Organisation for Economic Cooperation & Development E M003
Outokumpu MF J415

P

Pacific Northwest Laboratory M J152
Pacific Tin MF J306

Palabora Mining MF J066
Pancontinental Mining MF J015
P&H Harnischfeger A M483
Paringa Mining and Exploration MF J247 MF J490
Patino NV IA J155 MF J396
Peabody Coal Co. IA J155
Pechiney Ugine Kuhlmann IA J059 IA J464
Pelsart Resources P M123
Penarroya MF J484
Pengkalen IA J040 ME J201 MF J160
Perlini A M383
Petaling Tin MF J159
Pettibone P M285
PHB Weserhutte AG M J195 M M555 IA J504
Phelps Dodge MF J102 MW J128 IA J218 IA J258 MF J439
Pickands Mather IA J180
Pingnon A M151
Placer Development MF J183 P M433 MF J321
Poclain P M283
Podmore & Sons M J131
Polygem Inc. M J277
Potash Corp. of Saskatchewan A M136 IA J379 MF J413
Production Equipment Ltd. M J255
PT Pacific Nikkel Indonesia P M287

Q

Queensland Mines IA J394

R

Rahman Hydraulic Tin MF J160
Ralph M. Parsons Co. IA J041 A M376 IA J239
Ramsey Process Controls M J024
Ranchers Exploration IA J135 IA J280
Randfontein Estates Gold ME J260 MF J265 IA J378
Rand London Corp. IA J411
Rand Mines group MF J063 A M444
Ransomes & Rapier M J007 IA J041 IA J341 M J500
Reedrill Inc. M J236
Renison Tin MF J101
Renold Ltd. M J096
Renvac (Grimsby) Ltd. M J500
Reynolds Metals IA J180 IA J358 IA J464
Richards Bay Minerals IA J256
Rio Algom IA J040 MF J413
Rio Tinto-Zinc Corp. IA J115 IA J154 MF J307 MF J342 ME J364 MF J446 P M433
Roan Consolidated Mines A M293
Robert Hudson A M297
Rome Industries A M237
Rossing Uranium IA J392
Rowe & Pitman N J125
Royal Dutch/Shell MF J362
RSV Mining Equipment M M260
Rustenburg Platinum MF J061 ME J062 ME J243 MF J244
Ruston Bucyrus M J153 IA J280 A M295

S

St. Joe Minerals Corp. IA J009 IA J026 MF J206 MF J242 MW J253 MF J267 MF J287 IA J412 MF J467 IA J480 IA J481
St. Piran MF J383
Salzgitter A M227
Samancor MF J441
Sandia National Laboratories M J236
Schaffler A M391
Schopf A M229
Scintrex IA J041 M J078 M M413
Seagrams MF J206
Secoma A M151
Seltrust Holdings MF J223
G. A. Serlachius M J356
Shaw-Almex Industries M J315
Sherritt Gordon Mines MF J186 MF J307 P M287 MF J344
Showa Aluminium IA J097
Sibeka ME J414
Sierra Rutile A M458
Sigma Mines MF J325
Simonacco IA J240
Simon-Carves IA J080
Skega AB M J479
Slegten Co. D M271
Snamprogetti IA J303
Société Le Nickel (SLN) MF J487
Soquem MF J163
South Crofty IA J008
Southern Pacific Petroleum P M127
Southern Peru Copper Corp. M J195 IA J219 MW J253
South West Consolidated Mines IA J378 IA J394 MF J418
SPO Minerals Co. MF J102
Stammler A M451
Standard Oil Co. of California MF J200 MF J366
Standard Oil of Ohio MF J220 MF J307
Strachan and Henshaw IA J482
Subterranean (Pty) Ltd. M J175
Sumitomo Aluminium Smelting Co. IA J461
Sumitomo Metal Mining IA J218
Sunshine Mining Co. IA J154 MF J184
Swedish Mining Group A M471
Symcon Corp. MF J399
Sytramines A M471

T

Oy Tampella (Tamrock) A M297
Tanks Consolidated Investment MF J507
Tantalum Corporation of Canada MW J429 MF J015
Tara Exploration MF J396
Taylor Woodrow A M377 A M459
Teck Corporation MF J042 A M018 MF J102 IA J256 MF J488
Terex A M295
Texasgulf MF J029 IA J300 IA J318 MF J380 IA J482
Thiess Holdings IA J319
Thyssen IA J199
Tongkah Harbour MF J014
Torque Tension IA J198 IA J481
Tronoh Mines ME J442 MF J443
Tymshare UK M J111

U

UC Investments MF J102 ME J138 MF J140
UNC Resources IA J008
UNCTAD IA J156 N J249
Union Carbide P M007
Union Miniere MF J466 ME J485
United Keno Hill MF J363
United Nations N J210
U.S. Borax and Chemical Corp. P M359
U.S. Bureau of Mines MW J093
U.S. Steel Corp. MF J247 MW J353
Utah Development MF J307 P M285

V

Vam Ltd. IA J358
Varian Associates M J077
Victor Petroleum & Resources IA J410
Volvo M J152

W

Wabco A M219 A M463
Wagner A M151 A M227 A M297 A M535
W. & E. Moore (Anglia) Engg. IA J240
Wankie Colliery MF J141 MW J147
Warner & Swasey P M285
Weasua Mining & Development Co. A M041
Webster Machine Co. M J299
Weir Alloy Products IA J319 IA J341
Weserhuette A M385
Western Areas ME J260 MF J265 IA J378
Western Deep Levels M J007
Western Mining Corp. IA J081 MF J117
Westinghouse IA J009 IA J040 IA J098 IA J115 IA J281 IA J379
Westralian Sands MF J366
Whim Creek MF J365
White Industries IA J025 IA J218
Wilfley Mining Machinery M J391
Willroy Mines MW J149
W.J. Engineering IA J041

Z

Zaaiplaats Tin MF J088
Zambia Copper Investments MF J288
Zinc Corporation IA J197

PRINTED AND PUBLISHED BY THE MINING JOURNAL LIMITED,

15 WILSON STREET, LONDON EC2M 2TR, ENGLAND